



Metropolitan Transportation Authority

Safety Committee Meeting October 2018

Committee Members

J. Lhota, Chair

A. Albert

N. Brown

F. Ferrer

C. Moerdler

M. Pally

J. Samuelson

V. Tessitore, Jr.

J. Vitiello

P. Ward

N. Zuckerman

Safety Committee Meeting

**2 Broadway, 20th Floor Board Room
New York, NY 10004**

**Monday, 10/22/2018
2:30 - 3:30 PM ET**

1. Public Comments

2. Introductory Comments by new MTA Chief Safety Officer

3. Approval of Minutes - July 25, 2018

Safety Committee Minutes - Page 3

4. Work Plan

2018 Safety Cmte Work Plan - Page 6

5. Safety Metrics

August

MTACC Safety Metrics - ESA and SAS - Page 9

MTACC Safety Metrics - Cortlandt and No 7 Line - Page 10

MNR Safety Metrics - Page 11

LIRR Safety Metrics - Page 12

NYCT Safety Metrics - Page 13

B & T Safety Metrics - Page 14

July

MTACC Safety Metrics - ESA and SAS - Page 15

MTACC Safety Metrics - Cortlandt and No 7 Line - Page 16

MNR Safety Metrics - Page 17

LIRR Safety Metrics - Page 18

NYCT Safety Metrics - Page 19

B & T Safety Metrics - Page 20

June

MTACC Safety Metrics - ESA and SAS - Page 21

MTACC Safety Metrics - Cortlandt and No 7 Line - Page 22

MNR Safety Metrics - Page 23

LIRR Safety Metrics - Page 24

NYCT Safety Metrics - Page 25

B & T Safety Metrics - Page 26

6. Safety Promotion and Safety Risk Management

Safety Promotion:

i. MNR: Rail Safety Week

ii. LIRR: Presidents Safety Awards Ceremony

iii. NYCT: Safety Call Center

iv. B&T: Formalized Safety Committee Program

Safety Risk Management:

Review of status of NTSB Recommendation and On-going Investigation update.

**Metropolitan Transportation Authority
Minutes of
Safety Committee Meeting
2 Broadway, 20th Floor
New York, NY 10004**

**Wednesday, July 25, 2018
7:45 AM**

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:

Anne Kirsch, Metropolitan Transportation Authority, Headquarters (“MTAHQ”)
Carl Hamann, 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; Janno Lieber, Chief Development Officer, MTA; Catherine Rinaldi, President, MNR; Phillip Eng, President, LIRR; Cedrick Fulton, President, B&T; and Andy Byford, President, NYCT also attended the meeting.

Chairman Lhota chaired the April meeting, and called the meeting to order.

PUBLIC SPEAKERS

There were no public speakers.

APPROVAL OF MINUTES

Upon motion duly made and seconded, the minutes of the April 25, 2018 Safety Committee were approved. (The approval of the minutes took place at the end of the meeting.)

SAFETY COMMITTEE WORK PLAN

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

SAFETY PROMOTION: AWARENESS BROCHURE/SAFETY DAY

Ms. Kirsch discussed the 2 Broadway Safety Day and the Safety Awareness Brochure incorporating the Safety Management System (SMS) component, safety promotion. 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.

SAFETY ASSURANCE: REVIEW OF SAFETY PEFORMANCE

Ms. Kirsch introduced Carl Hamann to discuss NYCT performance metrics. 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. Albert asked for clarification on what Mr. Hamman meant by the 25 stations that were identified as the top "Slip, Trip and Fall Stations." Mr. Hamman clarified the classification identified the top 25 stations where the most slips, trips and falls occurred.

Mr. Hamman introduced Mr. Vieux to present on MTA bus performance. 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.

Ms. Kirsch introduced Ms. Ebbighausen to deliver the LIRR presentation. 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. Tessitore asked for consideration at the MTAHQ level about the rare circumstance when an employee suffers an injury while not officially on their work assignment. Mr. Tessitore stated this might occur if the employee arrives to work a little early or needs to leave work quickly. Mr. Tessitore explained that these injuries are "Class B Accidents" and require employees to use personal time to address their injury, potentially creating a hardship for that employee.

Ms. Hakim responded that this matter would go to Labor Relations for further consideration.

Ms. Kirsch introduced Justin Vonashek to deliver the MNR presentation. 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.

Ms. Kirsch introduced Peter Kohner to deliver the MTACC presentation. 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. Kirsch introduced Eric Osnes to deliver the B&T presentation. 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 praised President Fulton and Mr. Osnes for the work they have done on reducing customer injuries.

Mr. Lhota stated he has noticed the improvement at B&T as well.

Ms. Hakim thanked Mr. Zuckerman for the praise and stated that we will continue the improving trend.

ADJOURNMENT

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

2018 Safety Committee Work Plan

I. RECURRING AGENDA ITEMS

<u>Topic</u>	<u>Responsibility</u>
Public Comments	Committee Chair & Members
Approval of Minutes	Committee Chair & Members
Committee Work Plan	Committee Chair & Members

II. SPECIFIC AGENDA ITEMS

	<u>Responsibility</u>
<u>January 2018</u>	
Safety Assurance – Job Safety Briefings-Vision Zero	Agency Safety Leads
Safety Promotion – Winter Challenges	Safety Staff
<u>April 2018</u>	
Safety Policy – Discussion of SMS Framework	MTA Chief Safety Officer
Safety Risk Management – MTACC Construction Safety MTABT WAZE Partnership	Safety Staff
<u>July 2018</u>	
Safety Promotion – Awareness Brochure/HQ Safety Day	MTA Acting Chief Safety Officer
Safety Assurance – Review of Safety Performance	Agency Safety Leads
<u>October 2018</u>	
Safety Promotion – Specific item TBD	MTA Chief Safety Officer
Safety Risk Management – Specific item TBD	Safety Staff
<u>December 2018</u>	
Safety Policy – Evaluation of Safety Committee Charter	Committee Chair & Members
Safety Assurance – Review of Safety Performance	Agency Safety Leads
<u>January 2019</u>	
Safety Policy – Approval of 2016 Work Plan	Committee Chair & Members
Safety Risk Management – Specific item TBD	Safety Staff

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 2018

Safety Assurance – Review of Safety Performance

The committee will receive a briefing and discuss matters pertaining to Agency safety performance. This relates to the Safety Assurance SMS pillar, and provides an opportunity for deeper exploration of “lagging” indicators of safety.

Safety Promotion

The committee will receive a briefing and/or an action item pertaining to a specific aspect of the Safety Promotion SMS pillar.

April 2018

Safety Policy

The committee will receive a briefing and/or an action item pertaining to a specific aspect of the Safety Policy SMS pillar.

Safety Risk Management

The committee will receive a briefing and discussion will be invited pertaining to a specific aspect of the Safety Risk Management SMS pillar.

July 2018

Safety Assurance – Review of Safety Performance

The committee will receive a briefing and discuss matters pertaining to Agency safety performance. This relates to the Safety Assurance SMS pillar, and provides an opportunity for deeper exploration of “lagging” indicators of safety.

Safety Promotion

The committee will receive a briefing and/or an action item pertaining to a specific aspect of the Safety Promotion SMS pillar.

October 2018

Safety Promotion

The committee will receive a briefing and/or an action item pertaining to a specific aspect of the Safety Promotion SMS pillar.

Safety Risk Management

The committee will receive a briefing and discussion will be invited pertaining to a specific aspect of the Safety Risk Management SMS pillar.

December 2018

Safety Policy – Evaluation of Safety Committee Charter

The Safety Committee Charter specifies that the Committee Chair & Members will review the charter annually. This relates to the Safety Policy SMS pillar.

Safety Assurance – Review of Safety Performance

The committee will receive a briefing and discuss matters pertaining to Agency safety performance. This relates to the Safety Assurance SMS pillar, and provides an opportunity for deeper exploration of “lagging” indicators of safety.

January 2019

Safety Policy – Approval of 2019 Work Plan

The committee will be presented with and discuss the 2018 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.

Safety Risk Management

The committee will receive a briefing and discussion will be invited pertaining to a specific aspect of the Safety Risk Management SMS pillar.

SAFETY OPERATIONS REPORT

For East Side Access - August 2018

Performance		
Injury Rate	2017	2018 YTD
Lost Time Injury Rate per 200,000 worker hours	0.23	1.1
Recordable Injury Rate	1.25	1.7

Performance Indicator - CM	Aug	YTD	Goal	YTD as % of Goal
Daily Safety Walkthrough	200	1443	1920	75%
JHAT Audit	12	79	120	66%
Quarterly Safety Audit	0	10	20	50%
Bi Annual ACE Evaluation	0	7	10	70%
Safety Monthly Meeting	9	48	12	400%
Leading Indicators - Contractor	Aug	YTD	Goal	YTD as % of Goal
Training	24	184	160	115%
Toolbox Talks	27	485	500	97%
Site Inspections	27	1124	2940	38%
SWP Review/Audit	8	207	425	49%
New Employee Orientation	2	628	1500	42%
Emergency Preparedness	5	31	20	155%

For Second Avenue Subway - August 2018

Performance		
Injury Rate	2017	2018 YTD
Lost Time Injury Rate per 200,000 worker hours	0.0	0.0
Recordable Injury Rate	0.57	0.0

Performance Indicator - CM	Aug	YTD	Goal	YTD as % of Goal
Daily Safety Walkthrough	0	242	1415	17%
JHAT Audit	0	0	120	0%
Quarterly Safety Audit	0	0	20	0%
Bi Annual ACE Evaluation	0	0	10	0%
Safety Monthly Meeting	0	26	60	43%
Leading Indicators - Contractor	Aug	YTD	Goal	YTD as % of Goal
Training	2	21	158	13%
Toolbox Talks	9	99	240	41%
Site Inspections	75	693	1415	49%
SWP Review/Audit	4	50	0	#DIV/0!
New Employee Orientation	6	58	0	#DIV/0!
Emergency Preparedness	0	0	10	0%

SAFETY OPERATIONS REPORT

For Cortlandt - August 2018

Performance		
Injury Rate	2017	2018 YTD
Lost Time Injury Rate per 200,000 worker hours	0.0	0.0
Recordable Injury Rate	0.0	3.8

Performance Indicator - CM	Aug	YTD	Goal	YTD as % of Goal
Daily Safety Walkthrough	60	386	480	80%
JHAT Audit	2	16	24	67%
Quarterly Safety Audit	0	3	4	75%
Bi Annual ACE Evaluation	0	1	2	50%
Safety Monthly Meeting	24	143	180	79%
Leading Indicators - Contractor	Aug	YTD	Goal	YTD as % of Goal
Training	5	37	64	58%
Toolbox Talks	5	47	50	94%
Site Inspections	55	431	720	60%
SWP Review/Audit	2	27	45	60%
New Employee Orientation	6	78	100	78%
Emergency Preparedness	0	1	2	50%

For No. 7 Line - March 2018

Performance		
Injury Rate	2017	2018 YTD
Lost Time Injury Rate per 200,000 worker hours	0	0.0
Recordable Injury Rate	0.0	0.0

Performance Indicator - CM	March	YTD	Goal	YTD as % of Goal
Daily Safety Walkthrough	22	63	251	25%
JHAT Audit	2	4	11	36%
Quarterly Safety Audit	0	1	5	20%
Bi Annual ACE Evaluation	0	0	2	0%
Safety Monthly Meeting	1	3	12	25%
Leading Indicators - Contractor	March	YTD	Goal	YTD as % of Goal
Training	3	8	26	31%
Toolbox Talks	5	14	48	29%
Site Inspections	50	150	729	21%
SWP Review/Audit	0	0	9	0%
New Employee Orientation	24	55	124	44%
Emergency Preparedness	0	0	1	0%

August 2018 Safety Report

Performance				
Performance Indicator	12-Month Average			
	September 2015 - August 2016	September 2016 - August 2017	September 2017 - August 2018	
FRA Reportable Customer Accident Rate per Million Customers	1.27	0.92	0.83	
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	2.68	3.13	2.49	
	2017		2018	
	August	Year to Date	August	Year to Date
Grade Crossing Incidents ¹	0	1	0	1
Mainline FRA Reportable Train Derailments	0	2	0	0
Mainline FRA Reportable Train Collisions	0	0	0	0

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	2017		2018	
	August	Year to Date	August	Year to Date
First Responders Trained	18	976	258	1,601
Employee Safety Training Courses	142	291	143	332
Employees Trained	1,886	5,864	1,318	5,591
Employee Safety Training Hours	19,545	171,044	20,411	202,829
Customer and Community: Focus on Grade Crossings	2017		2018	
	August	Year to Date	August	Year to Date
Broken Gates	0	18	6	21
MTA Police Details	128	996	128	936
Summons	61	453	82	456
Warnings	22	134	19	55
Community Education and Outreach	5,455	44,965	8,510	82,160
Cars Equipped with Cameras	Fleet Size	Total Cars Equipped	% Complete	
Inward / Outward Facing Cab Cameras	956	699	73.12%	
Passenger Compartment Cameras	1,085	674	62.12%	

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.

August 2018 Safety Report

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

Performance					
Performance Indicator	12-Month Average				
	July 2015 - August 2016	July 2016 - August 2017	July 2017 - August 2018		
FRA Reportable Customer Accident Rate per Million Customers	3.85	4.62	2.26		
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	3.22	3.63	3.01		
		2017		2018	
		August	Year to Date	August	Year to Date
Grade Crossing Incidents ¹	2	10		1	5
Mainline FRA Reportable Train Derailments	0	1		1	1
Mainline FRA Reportable Train Collisions	0	1		0	3

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	2017		2018	
	August	Year to Date	August	Year to Date
First Responders Trained	42	1,010	110	1,718
Employee Safety Training Courses	76	352	79	682
Employees Trained	723	6,060	962	8,687
Employee Safety Training Hours	15,998	149,258	23,177	186,975
Customer and Community:	August	Year to Date	August	Year to Date
Broken Gates	16	74	10	76
MTA Police Details	126	602	66	826
Summons	236	1399	109	866
Warnings	81	602	42	381
Arrests	0	1	0	2
Community Education and Outreach	5,820	67,709	13,038	67,714
		Completed	Total	% Complete
Cameras on Rolling Stock		M7	138	16.50
		C3 Cab	23	100.00
		C3 Trailer	12	10.80
		DE/DM	1	2.22

Definitions:

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.

Monthly Operations Report August 2018

Statistical results for the 12-Month period are shown below

Safety Report			
Performance Indicators	12-Month Average		
	Sep 15 - Aug 16	Sep 16 - Aug 17	Sep 17 - Aug 18
Subways			
Subway Customer Accidents per Million Customers ¹	2.55	2.74	2.95
Subway Collisions ²	0	0	0
Subway Derailments ²	2	5	2
Subway Fires ^{1,2}	936	964	951
Buses			
Bus Collisions Per Million Miles Regional	56.13	54.54	53.96
Bus Collision Injuries Per Million Miles Regional	6.69	6.38	5.97
Bus Customer Accidents Per Million Customers ¹ Regional	1.21	1.27	1.26
Total NYCT and MTA Bus Lost Time Accidents per 100 Employees ¹	4.16	3.63	3.48

¹ 12-Month Average data from August through July.

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

Leading Indicators				
Subways	August	YTD	Goal	YTD as % of Goal
Roadway Worker Protection				
Joint Track Safety Audits -- Actual Count	34	262	340	77.1%
Joint Track Safety Audits -- Compliance Rate	98.8%	98.3%	100.0%	98.3%
Mainline Collision/Derailment Prevention				
Continuous Welded Rail Initiative (# of Track Feet)	6,765	67,063	72,000	93.1%
Friction Pad Installation	8,666	76,320	50,000	152.6%
Buses	August	YTD	Goal	YTD as % of Goal
Collision Prevention				
Audible Pedestrian Warning System Pilot	50	153	339	45.1%
Vision Zero Employee Training	543	4,339	6,100	71.1%

August 2018 Safety Report

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

Performance Indicator				
Performance Indicator	12-Month Average			
	September 2015 - August 2016	September 2016 - August 2017	September 2017 - August 2018	
Customer Collisions Rate for Bridge Customers per Million Vehicles	6.87	8.39	6.68	
Customer Injury Collisions Rate for Bridge Customers per Million Vehicles	0.92	0.92	1.04	
Employee Accident Reports	259	258	243	
Employee Lost Time Injuries Rate per 200,000 worker hours	6.7	6.6	8.6	
Construction Injuries per 200,000 worker	1.94	1.89	1.11	
Leading Indicators				
Roadway Safety	2017		2018	
	August	Year End	August	Year to Date
Workforce Development (# of Participants)	6	926	23	337
Fleet Preventative Maintenance Insp.	117	1445	100	1064
Safety Taskforce Inspections	0	12	0	4
Construction Safety	August	Year End	August	Year to Date
Construction Safety Inspections	248	3384	207	1402
Fire Safety	August	Year End	August	Year to Date
Fire Code Audits Completed	1	14	0	8
FDNY Liaison Visits	0	25	1	14

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.

SAFETY OPERATIONS REPORT

For East Side Access - July 2018

Performance		
Injury Rate	2017	2018 YTD
Lost Time Injury Rate per 200,000 worker hours	0.23	1.1
Recordable Injury Rate	1.25	1.7

Performance Indicator - CM	July	YTD	Goal	YTD as % of Goal
Daily Safety Walkthrough	202	1443	1920	75%
JHAT Audit	12	79	120	66%
Quarterly Safety Audit	0	10	20	50%
Bi Annual ACE Evaluation	0	7	10	70%
Safety Monthly Meeting	8	48	12	400%
Leading Indicators - Contractor	July	YTD	Goal	YTD as % of Goal
Training	22	184	160	115%
Toolbox Talks	33	485	500	97%
Site Inspections	25	1124	2940	38%
SWP Review/Audit	9	207	425	49%
New Employee Orientation	9	628	1500	42%
Emergency Preparedness	5	31	20	155%

For Second Avenue Subway - July 2018

Performance		
Injury Rate	2017	2018 YTD
Lost Time Injury Rate per 200,000 worker hours	0.0	0.0
Recordable Injury Rate	0.57	0.0

Performance Indicator - CM	July	YTD	Goal	YTD as % of Goal
Daily Safety Walkthrough	0	242	1415	17%
JHAT Audit	0	0	120	0%
Quarterly Safety Audit	0	0	20	0%
Bi Annual ACE Evaluation	0	0	10	0%
Safety Monthly Meeting	0	26	60	43%
Leading Indicators - Contractor	July	YTD	Goal	YTD as % of Goal
Training	1	21	158	13%
Toolbox Talks	8	99	240	41%
Site Inspections	76	693	1415	49%
SWP Review/Audit	5	50	0	#DIV/0!
New Employee Orientation	8	58	0	#DIV/0!
Emergency Preparedness	0	0	10	0%

SAFETY OPERATIONS REPORT

For Cortlandt - July 2018

Performance		
Injury Rate	2017	2018 YTD
Lost Time Injury Rate per 200,000 worker hours	0.0	0.0
Recordable Injury Rate	0.0	5.0

Performance Indicator - CM	July	YTD	Goal	YTD as % of Goal
Daily Safety Walkthrough	51	326	480	68%
JHAT Audit	2	14	24	58%
Quarterly Safety Audit	1	3	4	75%
Bi Annual ACE Evaluation	0	1	2	50%
Safety Monthly Meeting	20	119	180	66%
Leading Indicators - Contractor	July	YTD	Goal	YTD as % of Goal
Training	4	32	64	50%
Toolbox Talks	5	42	50	84%
Site Inspections	60	376	720	52%
SWP Review/Audit	4	25	45	56%
New Employee Orientation	12	72	100	72%
Emergency Preparedness	0	1	2	50%

For No. 7 Line - March 2018

Performance		
Injury Rate	2017	2018 YTD
Lost Time Injury Rate per 200,000 worker hours	0	0.0
Recordable Injury Rate	0.0	0.0

Performance Indicator - CM	March	YTD	Goal	YTD as % of Goal
Daily Safety Walkthrough	22	63	251	25%
JHAT Audit	2	4	11	36%
Quarterly Safety Audit	0	1	5	20%
Bi Annual ACE Evaluation	0	0	2	0%
Safety Monthly Meeting	1	3	12	25%
Leading Indicators - Contractor	March	YTD	Goal	YTD as % of Goal
Training	3	8	26	31%
Toolbox Talks	5	14	48	29%
Site Inspections	50	150	729	21%
SWP Review/Audit	0	0	9	0%
New Employee Orientation	24	55	124	44%
Emergency Preparedness	0	0	1	0%

July 2018 Safety Report

Performance				
Performance Indicator	12-Month Average			
	August 2015 -July 2016	August 2016 -July 2017	August 2017 -July 2018	
FRA Reportable Customer Accident Rate per Million Customers	1.26	0.94	0.81	
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	2.65	3.06	2.68	
	2017		2018	
	July	Year to Date	July	Year to Date
Grade Crossing Incidents ¹	0	1	0	1
Mainline FRA Reportable Train Derailments	0	2	0	0
Mainline FRA Reportable Train Collisions	0	0	0	0

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	2017		2018	
	July	Year to Date	July	Year to Date
First Responders Trained	58	958	165	1,343
Employee Safety Training Courses	107	272	128	302
Employees Trained	1,369	5,407	1,340	5,263
Employee Safety Training Hours	17,799	149,073	13,225	168,362
Customer and Community: Focus on Grade Crossings	2017		2018	
	July	Year to Date	July	Year to Date
Broken Gates	3	16	2	15
MTA Police Details	99	764	121	808
Summons	56	392	60	374
Warnings	9	89	11	36
Community Education and Outreach	1,560	39,510	6,295	73,650
Cars Equipped with Cameras	Fleet Size	Total Cars Equipped	% Complete	
Inward / Outward Facing Cab Cameras	956	626	65.48%	
Passenger Compartment Cameras	1,086	607	55.89%	

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.

July 2018 Safety Report

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

Performance				
Performance Indicator	12-Month Average			
	August 2015 - July 2016	August 2016 - July 2017	August 2017 - July 2018	
FRA Reportable Customer Accident Rate per Million Customers	3.82	4.60	2.25	
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	3.20	3.59	3.15	
	2017		2018	
	July	Year to Date	July	Year to Date
Grade Crossing Incidents ¹	1	8	1	4
Mainline FRA Reportable Train Derailments	0	1	0	0
Mainline FRA Reportable Train Collisions	0	1	0	3

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	2017		2018	
	July	Year to Date	July	Year to Date
First Responders Trained	42	1095	198	1,608
Employee Safety Training Courses	76	198	80	603
Employees Trained	723	6,060	1,043	7,725
Employee Safety Training Hours	15,998	149,258	18,529	163,798
Customer and Community:	July	Year to Date	July	Year to Date
Broken Gates	5	58	21	66
MTA Police Details	54	476	87	760
Summons	87	1,163	85	757
Warnings	25	521	53	339
Arrests	0	1	0	2
Community Education and Outreach	4,831	61,889	5,001	54,676
	Completed		Total	% Complete
Cameras on Rolling Stock	M7		106	12.67
	C3 Cab		22	95.65
	C3 Trailer		7	6.30
	DE/DM		1	2.22

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.

Monthly Operations Report July 2018

Statistical results for the 12-Month period are shown below

Safety Report				
Performance Indicators		12-Month Average		
		Aug 15 - Jul 16	Aug 16 - Jul 17	Aug 17 - Jul 18
Subways				
Subway Customer Accidents per Million Customers ¹		2.51	2.74	2.95
Subway Collisions ²		0	0	0
Subway Derailments ²		2	5	2
Subway Fires ²		947	960	953
Buses				
Bus Collisions Per Million Miles Regional		55.49	55.26	53.96
Bus Collision Injuries Per Million Miles Regional		6.58	6.22	6.39
Bus Customer Accidents Per Million Customers ¹ Regional		1.22	1.26	1.27
Total NYCT and MTA Bus Lost Time Accidents per 100 Employees ¹		4.16	3.67	3.42

¹ 12-Month Average data from July through June.

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

Leading Indicators				
Subways	July	YTD	Goal	YTD as % of Goal
Roadway Worker Protection				
Joint Track Safety Audits -- Actual Count	29	228	340	67.1%
Joint Track Safety Audits -- Compliance Rate	99.0%	98.2%	100.0%	98.2%
Mainline Collision/Derailment Prevention				
Continuous Welded Rail Initiative (# of Track Feet)	10,182	60,298	72,000	83.7%
Friction Pad Installation	12,138	67,654	50,000	135.3%
Buses	July	YTD	Goal	YTD as % of Goal
Collision Prevention				
Audible Pedestrian Warning System Pilot	4	103	339	30.4%
Vision Zero Employee Training	495	3,796	6,100	62.2%

July 2018 Safety Report

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

Performance Indicator			
Performance Indicator	12-Month Average		
	August 2015 - July 2016	August 2016 - July 2017	August 2017 - July 2018
Customer Collisions Rate for Bridge Customers per Million Vehicles	6.75	8.34	6.70
Customer Injury Collisions Rate for Bridge Customers per Million Vehicles	0.94	0.86	1.05
Employee Accident Reports	266	254	219
Employee Lost Time Injuries Rate per 200,000 worker hours	6.5	7.4	7.7
Construction Injuries per 200,000 worker hours	1.88	1.83	1.37

Leading Indicators				
Roadway Safety	2017		2018	
	July	Year End	July	Year to Date
Workforce Development (# of Participants)	169	926	8	314
Fleet Preventative Maintenance Insp.	113	1445	161	964
Safety Taskforce Inspections	0	12	0	4
Construction Safety	July	Year End	July	Year to Date
Construction Safety Inspections	222	3384	150	1195
Fire Safety	July	Year End	July	Year to Date
Fire Code Audits Completed	0	14	1	8
FDNY Liaison Visits	0	25	1	13

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.

SAFETY OPERATIONS REPORT

For East Side Access - June 2018

Performance		
Injury Rate	2017	2018 YTD
Lost Time Injury Rate per 200,000 worker hours	0.23	1.0
Recordable Injury Rate	1.25	1.6

Performance Indicator - CM	June	YTD	Goal	YTD as % of Goal
Daily Safety Walkthrough	191	1001	1920	52%
JHAT Audit	10	51	120	43%
Quarterly Safety Audit	0	5	20	25%
Bi Annual ACE Evaluation	0	6	10	60%
Safety Monthly Meeting	6	30	12	250%
Leading Indicators - Contractor	June	YTD	Goal	YTD as % of Goal
Training	23	142	160	89%
Toolbox Talks	48	445	500	89%
Site Inspections	49	1241	2940	42%
SWP Review/Audit	21	245	425	58%
New Employee Orientation	36	724	1500	48%
Emergency Preparedness	6	17	20	85%

For Second Avenue Subway - June 2018

Performance		
Injury Rate	2017	2018 YTD
Lost Time Injury Rate per 200,000 worker hours	0.0	0.0
Recordable Injury Rate	0.57	0.0

Performance Indicator - CM	June	YTD	Goal	YTD as % of Goal
Daily Safety Walkthrough	21	242	1415	17%
JHAT Audit	0	0	120	0%
Quarterly Safety Audit	0	0	20	0%
Bi Annual ACE Evaluation	0	0	10	0%
Safety Monthly Meeting	3	26	60	43%
Leading Indicators - Contractor	June	YTD	Goal	YTD as % of Goal
Training	3	21	158	13%
Toolbox Talks	7	99	240	41%
Site Inspections	72	693	1415	49%
SWP Review/Audit	6	50	0	#DIV/0!
New Employee Orientation	12	58	0	#DIV/0!
Emergency Preparedness	0	0	10	0%

SAFETY OPERATIONS REPORT

For Cortlandt - June 2018

Performance		
Injury Rate	2017	2018 YTD
Lost Time Injury Rate per 200,000 worker hours	0.0	0.0
Recordable Injury Rate	0.0	0.0

Performance Indicator - CM	June	YTD	Goal	YTD as % of Goal
Daily Safety Walkthrough	42	275	480	57%
JHAT Audit	2	12	24	50%
Quarterly Safety Audit	0	2	4	50%
Bi Annual ACE Evaluation	0	1	2	50%
Safety Monthly Meeting	16	99	180	55%
Leading Indicators - Contractor	June	YTD	Goal	YTD as % of Goal
Training	5	28	64	44%
Toolbox Talks	5	37	50	74%
Site Inspections	55	316	720	44%
SWP Review/Audit	3	21	45	47%
New Employee Orientation	6	60	100	60%
Emergency Preparedness	0	1	2	50%

For No. 7 Line - March 2018

Performance		
Injury Rate	2017	2018 YTD
Lost Time Injury Rate per 200,000 worker hours	0	0.0
Recordable Injury Rate	0.0	0.0

Performance Indicator - CM	March	YTD	Goal	YTD as % of Goal
Daily Safety Walkthrough	22	63	251	25%
JHAT Audit	2	4	11	36%
Quarterly Safety Audit	0	1	5	20%
Bi Annual ACE Evaluation	0	0	2	0%
Safety Monthly Meeting	1	3	12	25%
Leading Indicators - Contractor	March	YTD	Goal	YTD as % of Goal
Training	3	8	26	31%
Toolbox Talks	5	14	48	29%
Site Inspections	50	150	729	21%
SWP Review/Audit	0	0	9	0%
New Employee Orientation	24	55	124	44%
Emergency Preparedness	0	0	1	0%

June 2018 Safety Report

Performance				
Performance Indicator	12-Month Average			
	July 2015 -June 2016	July 2016 -June 2017	July 2017 -June 2018	
FRA Reportable Customer Accident Rate per Million Customers	1.24	1.00	0.78	
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	2.61	3.02	2.77	
	2017		2018	
	June	Year to Date	June	Year to Date
Grade Crossing Incidents ¹	0	1	0	1
Mainline FRA Reportable Train Derailments	1	2	0	0
Mainline FRA Reportable Train Collisions	0	0	0	0

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	2017		2018	
	June	Year to Date	June	Year to Date
First Responders Trained	53	900	284	1,178
Employee Safety Training Courses	122	256	129	292
Employees Trained	1,353	4,941	1,026	4,694
Employee Safety Training Hours	19,989	125,656	22,001	152,526
Customer and Community: Focus on Grade Crossings	2017		2018	
	June	Year to Date	June	Year to Date
Broken Gates	3	16	1	13
MTA Police Details	99	764	126	687
Summons	23	88	10	70
Warnings	9	89	5	25
Community Education and Outreach	11,995	37,950	8,910	67,335
Cars Equipped with Cameras	Fleet Size	Total Cars Equipped	% Complete	
Inward / Outward Facing Cab Cameras	956	579	60.56%	
Passenger Compartment Cameras	1,086	559	51.47%	

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. Program began in May 2016.

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

June 2018 Safety Report

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

Performance					
Performance Indicator	12-Month Average				
	July 2015-June 2016	July 2016-June 2017	July 2017-June 2018		
FRA Reportable Customer Accident Rate per Million Customers	3.85	4.58	2.36		
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	3.27	3.40	3.31		
		2017		2018	
		June	Year to Date	June	Year to Date
Grade Crossing Incidents ¹	1	7		0	3
Mainline FRA Reportable Train Derailments	0	1		0	0
Mainline FRA Reportable Train Collisions	0	1		0	3

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	2017		2018	
	June	Year to Date	June	Year to Date
First Responders Trained	27	1053	98	1,410
Employee Safety Training Courses	89	276	103	523
Employees Trained	998	5,337	1,312	6,682
Employee Safety Training Hours	21,757	133,260	23,557	145,269
Customer and Community: Focus on Grade Crossings	June	Year to Date	June	Year to Date
Broken Gates	10	53	5	45
MTA Police Details	71	422	88	673
Summons	154	1,076	69	672
Warnings	44	496	38	286
Arrests	0	0	1	2
Community Education and Outreach	12,692	57,058	9,227	49,675
		Completed	Total	% Complete
Cameras on Rolling Stock	M7		94	11.24
	C3 Cab		17	73.91
	C3 Trailer		6	5.40
	DE/DM		1	2.22

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.

Monthly Operations Report June 2018

Statistical results for the 12-Month period are shown below

Safety Report				
Performance Indicators		12-Month Average		
		Jul 15 - Jun 16	Jul 16 - Jun 17	Jul 17 - Jun 18
Subways				
Subway Customer Accidents per Million Customers ¹		2.52	2.71	2.95
Subway Collisions ²		0	0	0
Subway Derailments ²		2	4	3
Subway Fires ²		941	960	963
Buses				
Bus Collisions Per Million Miles Regional		55.05	55.44	54.09
Bus Collision Injuries Per Million Miles Regional		6.37	6.42	6.26
Bus Customer Accidents Per Million Customers ¹ Regional		1.20	1.28	1.25
Total NYCT and MTA Bus Lost Time Accidents per 100 Employees ¹		4.09	3.75	3.40

¹ 12-Month Average data from June through May.

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

Leading Indicators				
Subways	June	YTD	Goal	YTD as % of Goal
Roadway Worker Protection				
Joint Track Safety Audits -- Actual Count	33	199	340	58.5%
Joint Track Safety Audits -- Compliance Rate	99.3%	98.1%	100.0%	98.1%
Mainline Collision/Derailment Prevention				
Continuous Welded Rail Initiative (# of Track Feet)	10,569	50,116	72,000	69.6%
Friction Pad Installation	6,738	55,516	50,000	111.0%
Buses	June	YTD	Goal	YTD as % of Goal
Collision Prevention				
Audible Pedestrian Warning System Pilot	0	99	283	35.0%
Vision Zero Employee Training	553	3,301	6,100	54.1%

June 2018 Safety Report

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

Performance Indicator			
Performance Indicator	12-Month Average		
	July 2015 - June 2016	July 2016 - June 2017	July 2017 - June 2018
Customer Collisions Rate for Bridge Customers per Million Vehicles	6.59	8.35	6.79
Customer Injury Collisions Rate for Bridge Customers per Million Vehicles	0.96	0.87	1.03
Employee Accident Reports	236	288	208
Employee Lost Time Injuries Rate per 200,000 worker hours	5.9	7.9	7.4
Construction Injuries per 200,000 worker hours	1.90	1.78	1.39

Leading Indicators				
Roadway Safety	2017		2018	
	June	Year End	June	Year to Date
Workforce Development (# of Participants)	156	926	7	306
Fleet Preventative Maintenance Insp.	103	1445	113	803
Safety Taskforce Inspections	2	12	0	4
Construction Safety	June	Year End	June	Year to Date
Construction Safety Inspections	277	3384	175	1045
Fire Safety	June	Year End	June	Year to Date
Fire Code Audits Completed	3	14	2	7
FDNY Liaison Visits	1	25	1	12

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 represent 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 communications and special rescue operations should they be required.