



Metropolitan Transportation Authority

Safety Committee Meeting July 2020

Committee Members

P. Foye, Chair

A. Albert

N. Brown

R. Linn

J. Samuelson

V. Tessitore

N. Zuckerman

Safety Committee Meeting

2 Broadway, 20th Floor Board Room

New York, NY 10004

Wednesday, 7/22/2020

10:00 AM - 5:00 PM ET

1. Public Comments

2. NTSB

NTSB Slides - Page 3

3. Safety Metrics

May

MNR Safety Metrics - Page 13

LIRR Safety Metrics - Page 14

NYCT Safety Metrics - Page 15

B and T Safety Metrics - Page 16

April

MNR Safety Metrics - Page 17

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NYCT Safety Metrics - Page 19

B and T Safety Metrics - Page 20

Date of Next Meeting: September 2020



MTA Safety Committee

July 22, 2020

National Transportation Safety Board (NTSB) Recommendations Review



NTSB Recommendations Overview

- On-Going Investigations: MTA coordinates with the NTSB regarding emerging lessons learned from ongoing investigations.
 - NTSB closed 4 of the 4 on going in the last year
 - MTA received 5 new recommendations from these investigations
- Overview of Outstanding Recommendations:
 - Significant progress has been made implementing and closing out recommendations.
 - Of the 27 Open recommendations from the period July 2019-July 2020 only 7 remain open
 - 18 classified “Closed – Acceptable” (one was new and subsequently closed)
 - 3 classified “Open – Acceptable”
 - 4 are new



NTSB Investigations as of 7-14-20

2016-11-03 – NYCT subway construction flagger fatality, Brooklyn, NY - Completed
March 9, 2020

2017-05-18 – MNR derailment, Rye, NY Completed December 9, 2019

2017-06-10 – LIRR employee fatality, Queens Village, NY -- Completed March 9, 2020

2017-09-08 – NYCT-Bus struck by Private motor-coach, Queens, NY – Completed
November 2019



NTSB Recommendations as of 7-14-20

Agency	Recommendation	Submission Response	Status
MNR & LIRR (all RRs)	R-16-045: Hoxie, Arkansas - Review and revise as necessary, medical rules/protocols to ensure we are informed of any diagnosed sleep disorders and appropriate monitoring.	November 8, 2019 - Complete	- Closed – Acceptable Response
MNR	R-14-008: Spuyten Duyvil, Bronx, NY - Install inward/outward video and audio recording devices R-14-009: Develop program	November 8, 2019 - Complete - Complete	-Closed – Acceptable Response - Closed – Acceptable Response
MNR	R-14-057: Special Investigation Report (SIR) – Develop and implement a system to collect/analyze operational safety data and mitigate trends R-14-058: Improve risk management program – require process and share across divisions	November 8, 2019 - Complete - Complete	-Closed – Acceptable Response - Closed – Acceptable Response



NTSB Recommendations as of 7-14-20

Agency	recommendation	Submission Response	Status
MNR	<p>R-14-060: SIR - Develop and implement internal audit & oversight program</p> <p>R-14-061: Develop comprehensive training program to learn to conduct internal audits, test & evaluation, etc.</p>	<p>November 8, 2019 - Complete</p> <p>- Complete</p>	<p>- Closed – Acceptable Response</p> <p>- Closed – Acceptable Response</p>
MNR	<p>R-14-062: SIR - Revise medical protocols/sleep disorders</p> <p>R-14-064: Protocols for routine screening</p>	<p>August 16, 2019 - Complete</p> <p>- Complete</p>	<p>- Closed – Acceptable Response</p> <p>- Closed – Acceptable Response</p>
LIRR	<p>R-14-065: SIR - Protocols to routinely screen, test and treat as needed for sleep disorders</p>	<p>August 16, 2019 - Complete</p>	<p>- Closed – Acceptable Response</p>



NTSB Recommendations as of 10-22-18

Agency	Recommendation	Recent Response	Status
MTA	<p>R-14-066: SIR – Require review of safety & operational data/identify trends</p> <p>R-14-067: Establish program to evaluate deficiencies and apply mitigations across agencies</p> <p>R-14-068: Oversight and tracking process to ensure coordination of recommendations</p>	<p>November 8, 2020</p> <ul style="list-style-type: none"> - Safety Council established to review safety data - Safety Council directs risk mitigation actions based on evaluated issues. 	- Open Acceptable Response
MNR	<p>R-15-003: Bridgeport, CT - Replace Grade 5 mounting bolts in M8 passenger-car fleet</p>	<p>November 8, 2019</p> <ul style="list-style-type: none"> - Target 1Q 2021 completion 	- Open – Acceptable Response
MNR	<p>R-14-012: Bridgeport, CT - Revise track inspection program to include requiring main track inspections every 2 weeks and sidings once per month</p>	<p>November 8, 2019</p> <ul style="list-style-type: none"> - Complete 	- Closed – Acceptable Response



NTSB Recommendations as of 7-14-20

Agency	Recommendation	Recent Response	Status
MNR & LIRR	R-17-009: Valhalla, NY R-17-010: - Conduct a risk assessment for all highway-railroad grade crossings that have third rail present at or near and implement required mitigations	August 5, 2019 - Complete.	- Closed – Acceptable Response - Closed – Acceptable
LIRR	R-18-006: Queens Village, NY - Audit use of train approach warning as method of worker protection for compliance R-18-007: Implement corrective actions	May 13, 2020 - Audit conducted with MTA Audit General and NYSDOT PTSB - LIRR employees found in compliance	- Closed – Acceptable Response - Closed – Acceptable
LIRR & MNR	R-13-027: Goodwell, OK - Provide Positive Train Control (PTC) implementation update to Federal Railroad Administration (FRA) every 6 months until complete	June 2, 2020 - Both LIRR and MNR provide detailed quarterly PTC reports to the FRA and meet frequently - Railroads remain in compliance with all federal requirements	- Closed – Acceptable Response



NTSB Recommendations as of 7-14-20

Agency	Recommendation	Submission Response	Status
NYCT	<p>R-19-033: Brooklyn, NY - Revise your flagging procedures to prohibit the movement of trains at greater than restricted speed</p> <p>R-19-034: Conduct a comprehensive risk assessment of its current flagging rules and implement risk mitigation</p> <p>R-19-035: Modify your current close call reporting system to include the anonymous and confidential reporting of hazards and near misses.</p>	<p>September 20, 2019 - Testing new flagging procedures -NYCT employees found in compliance</p> <p>September 20, 2019 -Completed</p> <p>September 20, 2019 -Completed</p>	<p>- Open – Acceptable Response</p> <p>- Closed – Acceptable Response</p> <p>- Closed – Acceptable Response</p>



NTSB Recommendations as of 7-14-20

Agency	Recommendation	Submission Response	Status
LIRR	R-20-008: Queens Village, NY: (NTSB Completed Investigation and issued a Findings on May 14, 2020) Mitigate risks associated with using <u>train approach warning</u> as a method of on-track protection	August 14, 2020 (due) - First response due	- Open – New
	R-20-009: Work with the Labor Unions to develop and implement a work scheduling regime to reduce risk of fatigue	- First response due	- Open – New



NTSB Recommendations as of 7-14-20

Agency	Recommendation	Submission Response	Status
MNR	R-19-044: Rye, NY - Following a report of a track condition, rail traffic controllers should issue a speed restriction	December 19, 2019 - implemented	- Open – New
	R-19-045: Until PTC is fully implemented MNR Railroad should communicate to all train engineers and conductors the circumstances of this accident and the importance of the train engineer informing the conductor of any speed restrictions.	December 19, 2019 - implemented	-- Open – New

May 2020 Safety Report

Performance				
Performance Indicator	12-Month Average			
	June 2017 -May 2018	June 2018 -May 2019	June 2019 -May 2020	
FRA Reportable Customer Accident Rate per Million Customers	1.04	0.99	0.97	
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	2.82	2.21	1.91	
	2019		2020	
	May	Year to Date	May	Year to Date
Grade Crossing Incidents ¹	0	1	0	1
Mainline FRA Reportable Train Derailments	0	0	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	2019		2020	
	May	Year to Date	May	Year to Date
First Responders Trained	365	994	0	815
Employee Safety Training Courses	122	257	43	233
Employees Trained	989	4,173	299	3,031
Employee Safety Training Hours	22,593	122,583	2,458	82,470
Customer and Community: Focus on Grade Crossings	2019		2020	
	May	Year to Date	May	Year to Date
Broken Gates	8	13	2	8
MTA Police Details	51	350	21	136
Summons	37	246	50	270
Warnings	13	51	32	75
Community Education and Outreach	17,195	47,435	136	21,958
Cars Equipped with Cameras	Fleet Size	Total Cars Equipped	% Complete	
Inward / Outward Facing Cab Cameras	956	956	100.00%	
Passenger Compartment Cameras	1,084	1,084	100.00%	

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.

May 2020 Safety Report

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

Performance					
Performance Indicator	12-Month Average				
	June 2017 - May 2018	June 2018 - May 2019	June 2019 - May 2020		
FRA Reportable Customer Accident Rate per Million Customers	2.51	2.06	3.59		
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	3.44	2.93	3.43		
		2019		2020	
		May	Year to Date	May	Year to Date
Grade Crossing Incidents ¹	2	5*	0	2	
Mainline FRA Reportable Train Derailments	0	0	1	1	
Mainline FRA Reportable Train Collisions	1**	1**	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.

* 02/26/2019 School Street is counted as one event, but was reported as two for FRA 49 225 reporting purposes

** 05/25/2019 Speonk Collision is counted as one event, but was reported as two for FRA 49 225 reporting purposes

Leading Indicators				
Focus on Safety Training	2019		2020	
	May	Year to Date	May	Year to Date
First Responders Trained	228	720	0	174
Employee Safety Training Courses	88	480	36	281
Employees Trained	1,144	5,645	160	3,044
Employee Safety Training Hours	18,696	114,245	5,122	58,307
Customer and Community Focus on Grade Crossings	May	Year to Date	May	Year to Date
Broken Gates	5	43	6	39
MTA Police Details	128	655	40	176
Summons	99	836	156	775
Warnings	68	292	48	241
Arrests	0	4	0	0
Community Education and Outreach	9,015	43,433	0	21,464
		Completed	Total	% Complete
Cameras on Rolling Stock	M7		796	95
	C3 Cab		23	100
	C3 Trailer		104	94
	DE/DM		38	84

Definitions:

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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 May 2020

Statistical results for the 12-Month period are shown below

Safety Report			
Performance Indicators	12-Month Average		
	Jun 17 - May 18	Jun 18 - May 19	Jun 19 - May 20
Subways			
Subway Customer Accidents per Million Customers ¹	2.96	2.96	2.93
Subway Collisions ²			
Total	3	0	3
Mainline	0	0	0
Yard	3	0	3
Subway Derailments ²			
Total	6	5	6
Mainline	4	0	3
Yard	2	5	3
Subway Fires ²	955	764	790
Buses			
Bus Collisions Per Million Miles Regional	54.59	54.05	48.88
Bus Collision Injuries Per Million Miles Regional	6.42	5.91	5.80
Bus Customer Accidents Per Million Customers ¹ Regional*	1.23	1.42	1.51
Total NYCT and MTA Bus Lost Time Accidents per 100 Employees ¹	3.71	3.87	4.45

¹ 12-month Average data from March through April.

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

* = This metric relies on *estimated* ridership data and should not be directly compared with historic data. On March 23rd, rear-door boarding was implemented on all buses to protect operators from the spread of Covid-19. Since the implementation of this policy, we have been unable to collect traditional ridership data, which is linked to the farebox. Thus, current ridership estimates are based on a sample of observations from onboard passenger counting sensors, which are currently installed on 40% of the bus fleet.

Leading Indicators				
Subways	May	YTD	Goal	YTD as % of Goal
Roadway Worker Protection				
Joint Track Safety Audits -- Actual Count	17	132	340	38.8%
Joint Track Safety Audits -- Compliance Rate	100.0%	99.2%	100.0%	99.2%
Mainline Collision/Derailment Prevention				
Continuous Welded Rail Initiative (# of Track Feet)	0	6,386	47,520	13.4%
Friction Pad Installation	783	8,026	55,650	14.4%
Buses	May	YTD	Goal	YTD as % of Goal
Collision Prevention				
Audible Pedestrian Turn Warning System	1	23	40	57.5%
Vision Zero Employee Training	0	1,407	6,200	22.7%

May 2020 Safety Report

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

Performance Indicator				
Performance Indicator	12-Month Average			
	June 2017 - May 2018	June 2018 - May 2019	June 2019 - May 2020	
Customer Collisions Rate per Million Vehicles	7.11	6.43	5.80	
Customer Injury Collisions Rate per Million Vehicles	1.01	0.90	0.90	
Employee Accident Reports	215	263	182	
Employee Lost Time Injuries Rate per 200,000 Hours Worked	7.1	7.5	4.5	
Construction Injuries per 200,000 Hours Worked	1.47	1.40	2.69	
Leading Indicators				
Roadway Safety	2019		2020	
	May	Year End	May	Year to Date
Workforce Development (# of Participants)	7	429	0	25
Fleet Preventative Maintenance Insp.	88	1608	87	575
Safety Taskforce Inspections	0	13	0	0
Construction Safety	May	Year End	May	Year to Date
	197	2381	164	712
Fire Safety	May	Year End	May	Year to Date
	1	15	0	1
FDNY Liaison Visits	3	32	0	3

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

April 2020 Safety Report

Performance				
Performance Indicator	12-Month Average			
	May 2017 -April 2018	May 2018 -April 2019	May 2019 -April 2020	
FRA Reportable Customer Accident Rate per Million Customers	1.00	1.01	0.99	
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	2.92	2.37	1.85	
	2019		2020	
	April	Year to Date	April	Year to Date
Grade Crossing Incidents ¹	0	1	0	1
Mainline FRA Reportable Train Derailments	0	0	0	0
Mainline FRA Reportable Train Collisions	0	0	0	0

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Leading Indicators				
Safety Training	2019		2020	
	April	Year to Date	April	Year to Date
First Responders Trained	335	629	0	815
Employee Safety Training Courses	164	235	46	233
Employees Trained	1,178	3,690	298	3,008
Employee Safety Training Hours	16,855	95,496	2,085	80,012
Customer and Community: Focus on Grade Crossings	2019		2020	
	April	Year to Date	April	Year to Date
Broken Gates	2	5	2	8
MTA Police Details	86	299	2	115
Summons	44	209	2	220
Warnings	9	38	1	43
Community Education and Outreach	8,225	30,240	947	21,822
Cars Equipped with Cameras	Fleet Size	Total Cars Equipped	% Complete	
	Inward / Outward Facing Cab Cameras	956	956	100.00%
Passenger Compartment Cameras	1,084	1,084	100.00%	

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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.).

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April 2020 Safety Report

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

Performance					
Performance Indicator	12-Month Average				
	May 2017 - April 2018	May 2018 - April 2019	May 2019 - April 2020		
FRA Reportable Customer Accident Rate per Million Customers	2.58	2.10	3.00		
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	3.44	2.93	3.24		
		2019		2020	
		April	Year to Date	April	Year to Date
Grade Crossing Incidents ¹	0	3*	0	2	
Mainline FRA Reportable Train Derailments	0	0	0	0	
Mainline FRA Reportable Train Collisions	0	0	0	0	

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* One event resulted in 2 FRA required reports.

Leading Indicators				
Focus on Safety Training	2019		2020	
	April	Year to Date	April	Year to Date
First Responders Trained	153	492	0	174
Employee Safety Training Courses	123	392	6	245
Employees Trained	950	4,501	69	2,884
Employee Safety Training Hours	22,492	95,549	2,520	53,185
Customer and Community: Focus on Grade Crossings	April	Year to Date	April	Year to Date
Broken Gates	11	38	9	33
MTA Police Details	160	527	7	136
Summons	178	737	18	619
Warnings	66	224	6	193
Arrests	2	4	0	0
Community Education and Outreach	9,211	34,418	0	21,464
		Completed	Total	% Complete
Cameras on Rolling Stock	M7		780	93
	C3 Cab		23	100
	C3 Trailer		104	94
	DE/DM		38	84
	E-15		4	27

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Subways				
Subway Customer Accidents per Million Customers ¹	2.96	2.96	2.93	
Subway Collisions ²				
Total	3	0	3	
Mainline	0	0	0	
Yard	3	0	3	
Subway Derailments ²				
Total	6	5	6	
Mainline	4	0	3	
Yard	2	5	3	
Subway Fires ²	955	764	790	
Buses				
Bus Collisions Per Million Miles Regional	54.59	54.05	48.88	
Bus Collision Injuries Per Million Miles Regional	6.42	5.91	5.80	
Bus Customer Accidents Per Million Customers ¹ Regional*	1.23	1.42	1.51	
Total NYCT and MTA Bus Lost Time Accidents per 100 Employees ¹	3.71	3.87	4.45	

¹ 12-month Average data from March through April.

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

* = This metric relies on *estimated* ridership data and should not be directly compared with historic data. On March 23rd, rear-door boarding was implemented on all buses to protect operators from the spread of Covid-19. Since the implementation of this policy, we have been unable to collect traditional ridership data, which is linked to the farebox. Thus, current ridership estimates are based on a sample of observations from onboard passenger counting sensors, which are currently installed on 40% of the bus fleet.

Leading Indicators				
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Roadway Worker Protection				
Joint Track Safety Audits -- Actual Count	17	132	340	38.8%
Joint Track Safety Audits -- Compliance Rate	100.0%	99.2%	100.0%	99.2%
Mainline Collision/Derailment Prevention				
Continuous Welded Rail Initiative (# of Track Feet)	0	6,386	47,520	13.4%
Friction Pad Installation	783	8,026	55,650	14.4%
Buses	May	YTD	Goal	YTD as % of Goal
Collision Prevention				
Audible Pedestrian Turn Warning System	1	23	40	57.5%
Vision Zero Employee Training	0	1,407	6,200	22.7%

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Performance Indicator				
Performance Indicator	12-Month Average			
	May 2017 - April 2018	May 2018 - April 2019	May 2019 - April 2020	
Customer Collisions Rate per Million Vehicles	7.39	6.44	6.04	
Customer Injury Collisions Rate per Million Vehicles	0.95	0.99	0.87	
Employee Accident Reports	214	263	201	
Employee Lost Time Injuries Rate per 200,000 Hours Worked	7.2	7.5	5.3	
Construction Injuries per 200,000 Hours Worked	1.49	1.71	2.67	
Leading Indicators				
Roadway Safety	2019		2020	
	April	Year End	April	Year to Date
Workforce Development (# of Participants)	21	429	0	25
Fleet Preventative Maintenance Insp.	189	1608	70	488
Safety Taskforce Inspections	1	13	0	0
Construction Safety	April	Year End	April	Year to Date
Construction Safety Inspections	259	2381	99	548
Fire Safety	April	Year End	April	Year to Date
Fire Code Audits Completed	1	15	1	1
FDNY Liaison Visits	13	32	1	3

Definitions:

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