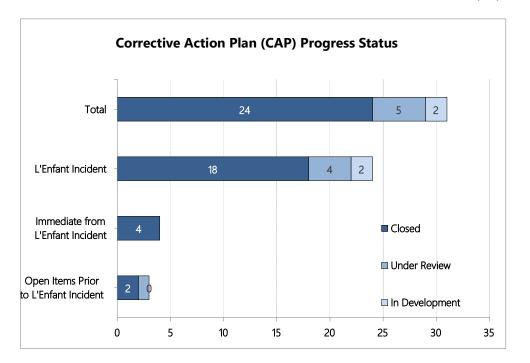
National Transportation Safety Board (NTSB) Detailed Tracker

As of 1/12/2024

Safety Hazard Risk Index						
1	Unacceptable	0				
II	Undesirable w/ Excecutive Safety Committee decision required	12				
III	Acceptable w/ review	8				
IV	Acceptable w/o review	4				

^{*}In accordance with FTA requirements, WMATA's Hazard Risk categories are expressed in terms of severity and probability of occurrence. This is used as a safety management tool for mitigating hazards to the lowest practicable level



Metro Actionable Item Status								
Closed	Under Review	In Development						

FTA Status Index								
0	Open	UR	Under NTSB Review					
O/PD	Open / Past Due	AC Addressing NTSB Comments						
C Closed								

ITSB Progress Sta	Metro Actionable Items	WMATA Hazard Risk Category	Original Estimate to Request Closure	CAP Status	Total Action Items	Action Items Submitted	Actionable Items Status Bar
TSB Corrective <i>I</i>	Action Plan (31 CAPs)				92	74	80% 0% 20% 40% 60% 80% 100%
pen Items Prior a	nd Immediate to L'Enfant Incident (7 CAPs)				7	7	100% 75% 80% 85% 90% 95% 100%
	Open Items Prior to L'Enfant Incident:		December 2017		3	3	
NTSB R-08-004	 WMATA developed technology to notify train operators when approaching work areas. 	1		UR			100%
NTSB-R-10-20	 WMATA removed 1000-series railcars from service as new 7000-series railcars are commissioned and placed in- service. 	П		С			0% 20% 40% 60% 80% 100%
NTSB-R-10-22	 WMATA developed a program to monitor railcar event recorders. 	IV		C			
	 WMATA will confirm there is reasonable evidence to support completion of actionable items and performance measures. 						
	Immediate from L'Enfant Incident:		September 2017		4	4	
NTSB R-15-8	 WMATA assessed the state of good repair of tunnel ventilation systems in accordance with industry best practices. 	II		С			0% 20% 40% 60% 80% 100%
NTSB R-15-9	 WMATA developed operational procedures for tunnel ventilation to provide optimal configuration for smoke emergencies. 	П		С			
NTSB R-15-10	 WMATA developed training programs for control center staff on updated ventilation procedures and configurations. 	11		C			
NTSB R-15-25	 WMATA inspected all cable connector assemblies for proper construction, including weather-tight seals, & making any necessary repairs. 	Ш		С			
	• Finally, WMATA performed a quality assurance audit to review actionable items.						

CAP#	Metro Actionable Items	WMATA Hazard Risk Category	to Request	CAP Status	Total Action Items	Action Items Submitted	Actionable Items Status Bar
NTSB twenty-four (2	24) safety recommendations				85	67	79% 0% 20% 40% 60% 80% 100%
	Review and revise WMATA's tunnel inspection, maintenance, and repair procedures to mitigate water intrusion into tunnels.	II	February 2018	C	2	2	100%
NTSB R-16-08	 WMATA developed maintenance/inspection procedures to identify and mitigate water intrusion into the tunnels. WMATA confirmed there is reasonable evidence to support completion of actionable items and performance measures. 						
NTSB R-16-09	When the revision of tunnel inspection, maintenance, and repair procedures recommended in Safety Recommendation R-16-08 have been completed, train maintenance employees on the new procedures, and ensure that the procedures are implemented. WMATA is developing maintenance/inspection procedures to identify and mitigate water intrusion into the tunnels. WMATA will incorporate a revised tunnel inspection, maintenance, and repair procedures into training curriculum. WMATA will rollout a new curriculum and training program. WMATA will create an audit plan and schedule to verify implementation. WMATA will confirm there is reasonable evidence to support completion of actionable items and performance measures.	II	March 2019	O/PD	5	1	20% 20% 40% 60% 80% 100%
NTSB R-16-10	Improve the capacity of tunnel ventilation fans to conform to the requirements of National Fire Protection Association (NFPA) 130. • WMATA reviewed existing ventilation studies that have been completed and also developed a recommended approach to analyzing the entire underground ventilation system for compliance with NFPA 130. • WMATA issued a contract for ventilation analysis. • WMATA recommended infrastructure improvements. • WMATA developed an action plan for recommended improvements. • Finally, WMATA performed a quality assurance audit to review actionable items.		September 2021	C	5	5	100%
NTSB R-16-11	Develop location-specific emergency ventilation config based on engineering studies of the WMATA tunnel ventilation system. WMATA wrote tunnel ventilation procedures in conjunction with NTSB R-15-9. WMATA analyzed potential tunnel ventilation system improvements. WMATA developed location-specific emergency ventilation configurations. Finally, WMATA performed a quality assurance audit to review actionable items.	11	July 2017	C	4	4	100%

	CAP#	Metro Actionable Items	WMATA Hazard Risk Category	Original Estimate to Request Closure	CAP Status	Total Action Items	Action Items Submitted	Actionable Items Status Bar
		Develop and implement procedures for actions to be taken by Rail Operations Control Center (ROCC)	ll	October 2017	С	3	3	100%
		 Personnel when smoke detectors alarm. WMATA wrote tunnel ventilation procedures in conjunction with NTSB R-15-9. 						0% 20% 40% 60% 80% 100%
1	NTSB R-16-12	• WMATA set a specific set of steps and responsibilities for smoke detector alarms.						
		• Finally, WMATA performed a quality assurance audit to review actionable items.						
		Once action to address Safety Recommendation R-16-12 is completed, train all ROCC personnel on the new procedures for responding to smoke alarms. This training should include regular refresher training.	II	May 2018	C	4	4	100% 0% 20% 40% 60% 80% 100%
1	ntsb r-16-13	• WMATA developed and implementing procedures for actions to be taken by ROCC personnel when smoke detectors alarm.						
		 WMATA incorporated procedures into the ROCC curriculum, to include refresher training. 						
		 WMATA provided documentation of training. Finally, WMATA performed a quality assurance audit to review actionable items. 						
		Incorporate smoke alarms in periodic emergency drills and exercises.	II .	December 2016	C	3	3	100%
1	NTSB R-16-14	 WMATA conducted quarterly emergency drills. WMATA developed a drill and coordination plan for the drill scheduled for October 2016. 						0% 20% 40% 60% 80% 100%
		• Finally, WMATA performed a quality assurance audit to review actionable items.						
		Include in your efficiency testing program (rules compliance testing program) a specific test to ensure appropriate emergency actions are taken by ROCC supervisors and control operators in response to an alarm.	Ш	January 2017	C	3	3	100% 0% 20% 40% 60% 80% 100%
1	NTSB R-16-15	WMATA conducted efficiency testing.WMATA conducted specific tests for ROCC personnel's						
		response to alarms. • Finally, WMATA performed a quality assurance audit to review actionable items.						
		NTSB R-16-16 - Install and maintain a system that will detect the presence and location of fire and smoke throughout the WMATA tunnel and station network.	II	August 2020	O/PD	3	1	33%
		• WMATA evaluated and tested potential smoke detection solutions.						0% 20% 40% 60% 80% 100%
1	NTSB R-16-16	• WMATA will develop an implementation plans for selected smoke detection solution.						
		• WMATA will confirm there is reasonable evidence to support completion of actionable items and performance measures.						
1	NTSB R-16-17	Develop procedures for regular testing of all smoke detectors. WMATA developed procedures for smoke detection systems. WMATA confirmed there was reasonable evidence to support completion of actionable items and performance	III	January 2018	UR	2	2	100% 0% 20% 40% 60% 80% 100%
		measures.						

CAP#	Metro Actionable Items	WMATA Hazard Risk Category	Original Estimate to Request Closure	CAP Status	Total Action Items	Action Items Submitted	Actionable Items Status Bar
	Conduct a risk assessment before any preventive maintenance program is initiated, changed or discontinued.	III	August 2018	C	5	5	100%
	 WMATA revised System Safety Program Plan (SSPP) to state that changes in preventative maintenance procedures are subject to formal approval. 						0% 20% 40% 60% 80% 100%
NTSB R-16-18	 WMATA revised policy instructions to state that changes in preventative maintenance procedures that are subject to formal approval. 						
	 WMATA reviewed existing policies to identify needs for revision. 						
	 WMATA developed or revise policies to state that changes in preventative maintenance procedures must be approved as described. 						
	• Finally, WMATA performed a quality assurance audit to review actionable items.						
	Ensure that all train operators are trained and regularly tested on the appropriate procedure for emergency shutdown of railcar ventilation.	Ш	March 2017	С	3	3	100%
	 WMATA updated procedure for shutting down railcar ventilation. 						0% 20% 40% 60% 80% 100%
NTSB R-16-19	WMATA updated the new train operator training curriculum.						
	 WMATA confirmed there was reasonable evidence to support completion of actionable items and performance measures. 						
	Incorporate a specific test in your efficiency testing program to ensure that train operators understand the procedure for emergency shutdown of railcar ventilation.	Ш	February 2017	C	3	3	100%
	 WMATA implemented an efficiency testing program for Rail Traffic Controllers (RTCs). 						0% 20% 40% 60% 80% 100%
NTSB R-16-20	• WMATA tested train operators in emergency shutdown of railcar ventilation.						
	 WMATA confirmed there was reasonable evidence to support completion of actionable items and performance measures. 						
	Revise Standard Operating Procedure (SOP) #6 to clarify which trains should be stopped until the source of smoke is identified.	IV	December 2016	С	2	2	100%
NTSB R-16-21	• WMATA updated SOP #6 to state all trains that must be stopped in the event of a smoke incident.						0% 20% 40% 60% 80% 100%
	• Finally, WMATA performed a quality assurance audit to review actionable items.						
	Revise your SOP to require that: (1) suitably trained, qualified, and properly equipped personnel investigate reports of wayside fire or smoke, and (2) these reports are not investigated using trains with revenue passengers.	IV	February 2017	С	3	3	100% 0% 20% 40% 60% 80% 100%
NTSB R-16-22	WMATA created procedural checklists.						
	WMATA developed an SOP for smoke investigation.Finally, WMATA performed a quality assurance audit to						
	review actionable items.						

CAP#	Metro Actionable Items	WMATA Hazard Risk Category	Original Estimate to Request Closure	CAP Status	Total Action Items	Action Items Submitted	Actionable Items Status Bar
	Review and revise as necessary your ROCC emergency response procedures for smoke and fire.	IV	February 2018	AC	5	0	0%
	 WMATA developed tunnel ventilation procedures for Operations Control Center staff. 						0% 20% 40% 60% 80% 100%
	• WMATA developed procedural checklists for SOPs.						
NTSB R-16-23	• WMATA developed drills to assess Metro's response to smoke and fire.						
	• WMATA reviewed and revised existing SOPs for ROCC response to fire and smoke emergencies.						
	• WMATA confirmed there was reasonable evidence to support completion of actionable items and performance measures.						
	Retrain ROCC supervisors on all standard operating	III	February 2017	AC	3	0	
	procedures for emergencies.						0%
NTCD 5 46 C	WMATA established SOP procedural checklists.WMATA retrained ROCC supervisors on procedural						0% 20% 40% 60% 80% 100%
NTSB R-16-24	 WMATA confirmed there was reasonable evidence to support completion of actionable items and performance measures. 						
	Develop and incorporate a comprehensive program for training ROCC control operators in emergency response procedures including regular refresher training.	11	June 2018	С	5	5	100%
	• WMATA developed annual recertification for RTCs.						0% 20% 40% 60% 80% 100%
	WMATA updated emergency response training.						
NTSB R-16-25	• WMATA developed and implemented procedures for smoke detector alarms.						
	• WMATA trained all ROCC personnel on the new procedures for smoke detector alarms.						
	• WMATA confirmed there is reasonable evidence to support completion of actionable items and performance measures.						
	Conduct regular emergency response drills and develop	ll l	October 2018	AC	4	0	
NTSB R-16-26	a program to test the efficiency of the ROCC to ensure that standard operating procedures are properly followed during emergencies.						0% 20% 40% 60% 80% 100%
	• WMATA updated emergency response training.						0/0 20/0 40/0 00/0 80/0 100/0
	• WMATA conducted drills to assess Metro's response to smoke & fire.						
	 WMATA developed an audit plan to verify compliance with emergency procedures during drills. 						
	• WMATA confirmed there was reasonable evidence to						
	support completion of actionable items and performance measures.						
	Install line identification and direction signage at tunnel entrances and inside tunnels.	Ш	April 2018	С	5	5	100%
	WMATA determined appropriate signage locations.						100%
	• WMATA surveyed tunnels to map proposed locations.						0% 20% 40% 60% 80% 100%
	WMATA developed proposed improvements and a						
NTSB R-16-27	tentative implementation plan for jurisdictional review.						
N I 2R K-10-21	 WMATA developed and implement a final implementation plan when improvements are accepted by jurisdictional fire chiefs. 						
	• Finally, WMATA performed a quality assurance audit to review actionable items.						

CAP#	Metro Actionable Items	WMATA Hazard Risk Category	Original Estimate to Request Closure	CAP Status	Total Action Items	Action Items Submitted	Actionable Items Status Bar
	Implement a regular schedule for the inspection and removal of obstructions from safety walkways and track-bed floors to ensure safe passageways for passengers to use during a tunnel evacuation.	II II	October 2017	С	3	3	100% 0% 20% 40% 60% 80% 100%
	• WMATA removed obstructions from safety walkways.						0/0 20/0 40/0 00/0 00/0 100/0
NTSB R-16-28	 WMATA developed formal written procedures for inspection, reporting, clearing, and recording of obstructions in the roadway and on safety walkways. 						
	 WMATA confirmed there is reasonable evidence to support completion of actionable items and performance measures. 						
NTSB R-16-29	Conduct emergency response drills with local emergency response agencies in accordance with NFPA 130, document lessons learned, and develop and implement additional procedures as necessary to effectively respond to emergencies. • WMATA conducted quarterly emergency drills.	II	February 2017	C	3	3	100% 0% 20% 40% 60% 80% 100%
11130 K-10-23	• WMATA outlined the standard approach for documenting drills in accordance with industry guidelines.						
	• Finally, WMATA performed a quality assurance audit to review actionable items.						
	Revise your standard operating procedures to require that an after-action review be conducted of all emergency responses to events with passenger or employee fatalities, and publish the results, including both the successes and the potential deficiencies of your responses, to help ensure that deficiencies are appropriately remediated.	IV	April 2017	C	2	2	100% 0% 20% 40% 60% 80% 100%
NTSB R-16-30	 WMATA developed an SOP detailing requirements for performing an After-Action Review (AAR). Finally, WMATA performed a quality assurance audit to 						
	review actionable items.						
NTSB R-16-31	Review and revise your quality assurance program to ensure that regular quality assurance audits are included to identify and correct any elements of procedural noncompliance.	II	May 2017	С	5	5	100% 0% 20% 40% 60% 80% 100%
	 WMATA developed an overview of the Quality Management System (QMS), quality objectives and guiding principles. 						076 2076 4076 0076 8076 10076
	 WMATA reviewed the existing manual and identify gaps. 						
	 WMATA revised manual to incorporate input from gap analysis. 						
	WMATA implemented updated QMS.						
	 WMATA confirmed there was reasonable evidence to support completion of actionable items and performance measures. 						