

Safety and Operations Committee Board Information Item IV-A

November 19, 2020

Corrective Action Plans Update

Washington Metropolitan Area Transit Authority Board Action/Information Summary

O Action ● Information
 MEAD Number: Resolution:
 202221
 O Yes ● No

TITLE:

Status of Safety Corrective Action Plans

PRESENTATION SUMMARY:

The Department of Safety and Environmental Management (SAFE) will be providing an update on the open National Transportation Safety Board (NTSB) and State Safety Oversight (SSO) Corrective Action Plans (CAPs) and associated actionable items.

PURPOSE:

This update informs the Safety Committee on the current status of the open NTSB and SSO CAPs. This briefing will publicly communicate the status of the actionable items as Metro continues to close these and all other recommendations as part of improving safety

DESCRIPTION:

Developed by WMATA, CAPs describe the actions the Authority will take to minimize, control, correct, or eliminate risks and hazards, as well as specify the schedule for taking the actions. CAPs are developed to address findings, recommendations, or required actions issued from multiple sources including NTSB and the SSO. They are tracked by WMATA's internal Quality Assurance, Internal Compliance and Oversight (QICO) and any WMATA department may be assigned responsibility for CAP completion. CAPs are implemented through WMATA personnel, contractors, and capital investments procured from third-party vendors.

The NTSB and SSO CAPs are managed differently. Upon receipt of an SSO finding or required action, the Authority has 45 days to develop CAPs, including the hazard ratings for the recommendation and mitigation. These CAPs are submitted to the SSO for review and approval, at which point WMATA begins the implementation process.

The NTSB issues Safety Recommendations, which WMATA is responsible for developing responding CAPs. These CAPs are delivered to the NTSB within 90 days of the issuance of the Safety Recommendations. The NTSB does not formally approve the CAPs, but WMATA seeks concurrence prior to implementation.

There are no interested parties in this matter.

Key Highlights:

- There have been 367 Corrective Action Plans (CAPs) assigned to WMATA.
- 305 have been closed in the past five years.
- 45 CAPs remain open.
- 17 CAPs have been fully implemented and have been submitted to the NTSB or SSO for review and closure.
- Each CAP may have multiple actionable items, of which there are 1513. Of that total, 1283 have been approved and closed, 105 have been submitted for approval and closure, and the remaining 125 have been developed and are in the process of being implemented.

Background and History:

The CAPs can be divided into three groups.

The Federal Transit Administration CAPs include those that were originally assigned as part of the FTA's oversight role. Those CAPs have been transferred to Metro's SSO Agency, the Washington Metrorail Safety Commission (WMSC). The WMSC will continue to manage the CAPs. These CAPs are embedded in the FTA's original Safety Directives, of which there have been seven issued:

- 15-1, Safety Management Inspection;
- 16-2, Tri-State Oversight Committee:
- 16-4, Track Integrity Investigation;
- 16-5, Stop Signal Overrun Investigation;
- 16-6, Rail Vehicle Securement Investigation;
- 17-1, Traction Power Electrification Investigation; and
- 18-2, TOC Triennial Safety Findings.

These Directives have resulted in 289 CAPs.

In addition to transferred CAPs, the WMSC has independently issued and approved 47 additional CAPs in 2020, resulting in 147 actionable items. The recent WMSC Rail Operations Control Center audit report resulted in an additional 22 CAPs, which are currently under development and review and are not included in the total tallies. These CAPs are scheduled to be approved by the WMSC sometime in November 2020. Upon approval, the CAPs will be

included in the overall count.

The NTSB CAPs are those that been assigned primarily in response to the L'Enfant Incident. Of the 31 total CAPs, three are unrelated to this incident.

Closures by entity are:

- Of the 289 SSO FWSO CAPs, 278 have been closed.
- Of the 47 WMSC CAPs, nine have been closed.
- Of the 31 NTSB CAPs, 18 have been closed.

Some CAPs may take longer than others to implement due to factors such as significant capital investment, complexity of design, availability of technology, production schedules, and other factors.

The CAP closures have contributed to the progress on improving areas such as preventive and corrective maintenance; policy and procedures, and training and recordkeeping. The status of each CAP is posted online for tracking and review at: https://www.wmata.com/initiatives/transparency/Corrective-Action-Plans.cfm

Discussion:

Actionable Items:

Actionable Items are attached to each CAP that demonstrate how WMATA will close out the CAP.

Of the current 1513 Actionable Items:

- 1283 have been approved and closed;
- 105 have been submitted for approval and closure; and
- The remaining 125 have been developed and are being implemented.

A single action may be equivalent to closing a finding in which WMATA developed an overall CAP. However, the majority of the CAPs have numerous Actionable Items that address the specific finding or recommendation.

To address these Actionable Items, WMATA must implement them and submit documentation to either the SSO or the NTSB for approval.

The number of Actionable Items will continuously change over time (i.e., when a CAP is closed by the SSO or NTSB, or if new ones are added). For example, a new WMSC audit will generate additional CAPs and Actionable Items. The last audit was issued in September 2020 for the Department of Rail Transportation Rail Operations Control Center.

FUNDING IMPACT:

There is no impact on funding for this informational presentation.		
Project Manager:	Theresa Impastato	
Project Department/Office:	Department of Safety and Environmental Management	

TIMELINE:

Anticipated actions after presentation	December 12, 2019 – Update on Status of Safety Corrective Action Plans • Continue to fully implement all NTSB and SSO CAPs • Continue to implement programs and activities to
1 Totious Actions	October 11, 2018 – Update on FTA and NTSB Actionable Item
Previous Actions	January 16, 2018 – Memo to Board
	November 16, 2017 – Update on FTA and NTSB Actionable Item
	April 27, 2017 – NTSB CAP Review



Purpose

Provide an update on the status of safety corrective action plans

https://www.wmata.com/initiatives/transparency/Corrective-Action-Plans.cfm

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY



CAP Defined

- What is a Corrective Action Plan (CAP)?
 - Plan developed by Metro, in response to a Washington Metrorail Safety Commission (WMSC)/NTSB recommendation or finding, describing actions to minimize, control, correct, or eliminate risks and hazards, as well as the schedule for taking those actions
 - CAPs are submitted to the WMSC for review and approval, prior to full implementation
 - Metro routinely meets with the WMSC on CAP progress



CAP Status Defined

Open Implementing	Mitigation strategy developed; in the process of being implemented
Open Submitted for Closure	Fully implemented, supporting documentation submitted to the WMSC/NTSB for review
Closed	Plan implemented, approved, and closed by WMSC/NTSB

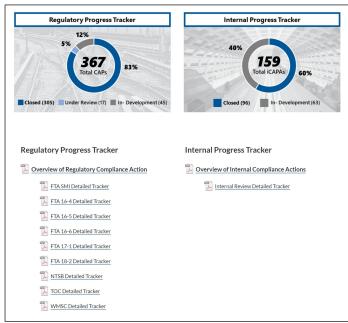
https://www.wmata.com/initiatives/transparency/Corrective-Action-Plans.cfm



WMATA CAP Progress Tracker - Public Site

- Since 2017, all oversight CAPs have been posted on WMATA's website
- Provides detailed breakdown
- Updated weekly





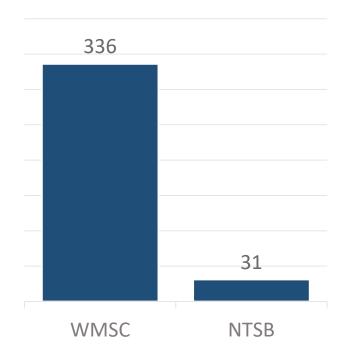
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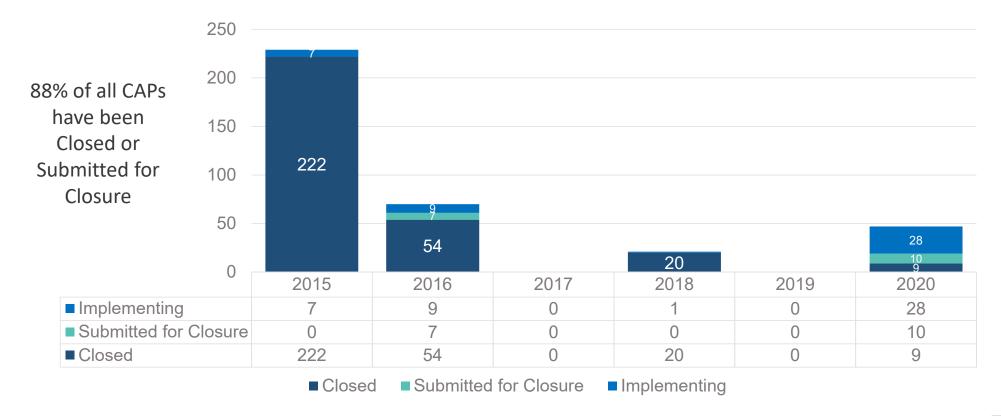
CAPs by Source

- Total of 367 CAPs have been assigned to Metro
 - All WMSC CAP plans have been approved
 - NTSB does not pre-approve CAP actionable items
- 305 of the 367 have been closed in the past five years
 - 71 CAPs have been closed since last Board report in December 2019
- Of the remaining 62 CAPS that are open:
 - 17 CAPs have been completed and submitted for closure
 - · 45 CAPs are currently being implemented
- CAPs addressing the WMSC ROCC Report are in the review cycle and are not included in this report





Regulatory CAP Progress*



*as of 10/30/20

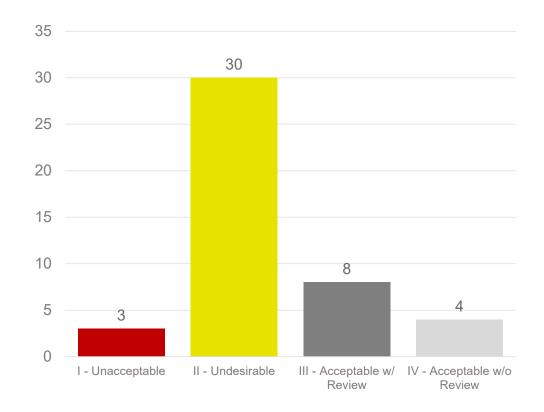


Hazard Ranking*

Open CAPs currently being implemented

<u>Unacceptable Hazards</u>

- WMSC-20-C0035
 - Emergency ventilation fans operation training and vent fan playbook familiarization for rail controllers
- *NTSB-R-08-004* (2x, adopted by prior SSO)
 - Bi-directional technology for roadway worker protection

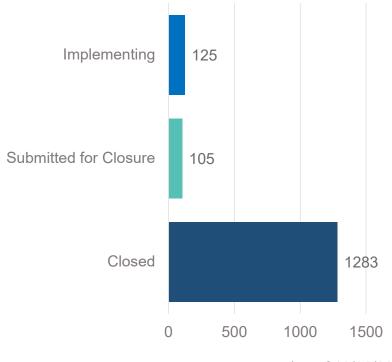


*as of 10/30/20



Actionable Items Progress*

- Under the 367 CAPs, there are 1513 individual actionable items
- 1283 of the 1513 have been closed in the past four years
- Actionable Item Status
 - Open (15%)
 - Implementing (8%)
 - Completed / under review for closure (7%)
 - Closed (85%)

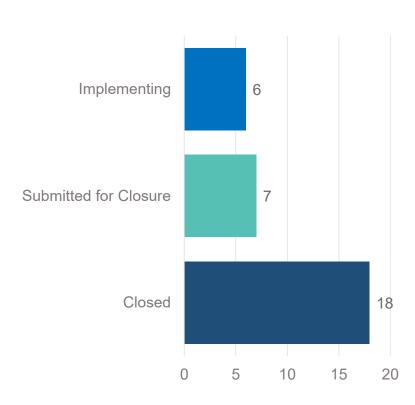






NTSB CAP Status

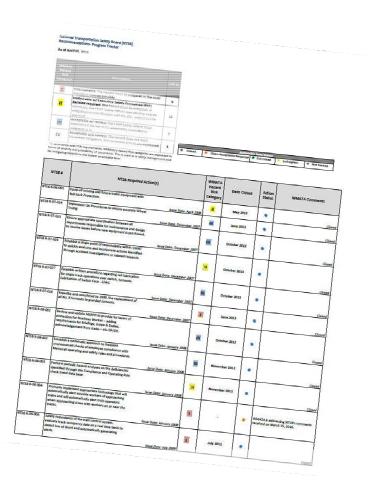
- CAPs are the result of a variety of incidents
- Oldest CAP is R-08-004
 - Bi-directional technology for roadway worker protection
- Many CAPs require long lead times
 - Significant capital investment
 - Complexity of design
 - Availability of technology
 - Production scheduling





Next Steps

- Awaiting response from WMSC and NTSB on submitted action items
- Continue working with WMSC to close out CAPs
- Continue working to close actionable items by scheduled dates



https://www.wmata.com/initiatives/transparency/Corrective-Action-Plans.cfm

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Questions



