Washington Metropolitan Area Transit Authority Board Action/Information Summary

Action ● Information
 MEAD Number: Resolution:
 201748
 Yes ● No

TITLE:

Update on FTA and NTSB Safety Activities

PRESENTATION SUMMARY:

The Department of Safety & Environmental Management (SAFE) brief the Board on corrective actions plans (CAPs), FWSO actions and National Transportation Safety Board (NTSB) Accident Investigation relative to the L'Enfant Smoke and Arcing Incident of January 2015.

PURPOSE:

The briefing on FTA's FWSO actions and NTSB Accident Investigation provides an update to the Safety Committee on ongoing work activities and deliverables between the FWSO and WMATA as well as the activities/schedule of the NTSB as it relates to the L'Enfant Plaza Smoke and Arcing Incident of January 2015. Further, the public report provides transparency to our stakeholders, employees and public in the Washington metropolitan area community.

DESCRIPTION:

WMATA continues to work collaboratively with all external agencies in an effort to strengthen the safety of the system for its employees and pubic.

Key Highlights:

- Over 445 action items (out of 732) have been submitted as progress continues on schedule towards closing open and approved corrective action plans, from the FTA Safety Management Inspection.
- 8 CAPs have been officially closed reducing the total number of open CAPs to 214, as reported in monthly CAP report.
- WMATA submitted its plan to address the FWSO three-part "safety inspection blitz" in addition to ongoing field inspections, triennial audits.
- NTSB held its public Board meeting and approved the L'Enfant Smoke and Arcing Incident report with 43 findings and 31 recommendations being adopted; 24 new recommendations to WMATA.

Background and History:

Following the January 2015 smoke and arcing incident, the NTSB launched an investigation, and the Federal Transit Administration initiated a Safety Management Inspection. Both led to recommendations and required follow up actions by WMATA.

As part of the NTSB investigation, a formal and public NTSB Investigative Hearing was held in June 2015. After completion of the hearing, WMATA was afforded an opportunity to review factual reports for technical accuracy.

In March, the FTA conducted a Safety Management Inspection which resulted in an issuance of Safety Directive 15-1 (June 2015) identifying 54 safety findings and 91 required actions to improve safety. The SMI evaluated operations and maintenance of both bus and rail, safety management capabilities and organizational structure, adopting an all-encompassing, safety management system (SMS) approach. WMATA systematically worked to develop corrective action plans (CAPs) for all actions and in September 2015 received FTA's approval of the CAPs as "open and acceptable". WMATA is working to close each of the CAPs and submits weekly deliverables to the FTA towards completion of the CAPs.

On October 9, 2015 FTA (specifically the FTA WMATA Safety Oversight or FWSO) assumed direct oversight of WMATA, exercising its new authority to do so, as established by the Moving Ahead for Progress in the 21st Century Act (MAP-21) in 2012. The same act (and subsequent rulemakings) also codifies a Safety Management System (SMS) framework for safety oversight of all public transit properties, to be managed by each transit property's State Safety Oversight Agency. FWSO and WMATA are collaborating and continue to transition from Tri-State Oversight Committee to FTA oversight. As part of this transition, FWSO has reconciled/consolidated (under Safety Directive 16-2) all open items from the previous oversight, TOC, into 4 categories and 153 CAPs (of which 22 merged with one of the existing 91 FTA SMI CAPs). All CAPs (from FTA SMI or TOC) have been consolidated and provided in a monthly report to the management and the Board of Directors.

Additionally, WMATA's Investigative Report of the August 6, 2015 Metrorail derailment (non-passenger) between Federal Triangle and Smithsonian stations was submitted on October 14, 2015 for review and approval before public release. On February 16, 2016, the FWSO submitted a request for additional information to be included in the draft accident report. This request was completed and submitted back to the FWSO within the 30 days requirement.

As part of the FTA FWSO oversight role, routine field inspections and triennial audits are occurring as well as a safety blitz focused on three areas; track integrity, yard vehicle securement and red signal violations. The first of these, track integrity has been completed and awaiting the FTA FWSO's official report. The Authority has received and responded on April 28, 2016 to a formal letter outlining Fire/Life safety issues identified during that track integrity inspection.

In regards to the January 2015, L'Enfant Plaza smoke and arcing incident, the NTSB has conducted its public Board meeting on May 3, 2016 and approved its official accident report. The report contains 43 findings and 31 total recommendations; 24 to the Authority and the remainder to external agencies. The NTSB stated the probable cause for Metro's fatal January 12, 2015 L'Enfant Plaza smoke incident was "a prolonged short circuit that consumed power system components" resulting from the transit agency's "ineffective inspection and maintenance practices". Those ineffective practices persisted as a result of the failure of senior Metro management to "proactively assess and mitigate foreseeable risk". Contributing to the incident were inadequate

safety oversight by the Tri-State Oversight Committee and the Federal Transit Administration. The Authority is reviewing and developing a coordinated corrective action plan to address each of the recommendations.

Discussion:

WMATA continues to welcome oversight in an effort to assist in identifying issues as part of the infrastructure rehabilitation and enhancement to safety for our employees and public. Currently eight CAPs out of the 222 total have been closed by FWSO. Of the current NTSB recommendations there are eight (four from the original 29 and four early recommendations from the L'Enfant incident) remaining to be closed combined with 24 new recommendations for a total of 32 NTSB recommendations.

On April 4, 2016, the FTA FWSO began a track integrity safety blitz on the Metrorail system comprised of a diverse team of experts from the Federal Railroad Administration (FRA) to FWSO staff to consultants. Over 60 miles of track was inspected included 27 areas where the Authority had recently performed detailed inspection and repairs. Although the Authority is still awaiting FWSO official report, corrective actions have already begun on identified fire/life safety issues. Additionally, in out briefings and communication from FTA FWSO has noted that on the whole "FWSO's teams found the WMATA's track conditions generally conform to WMATA's track safety standards..." and "FWSO found that WMATA was taking responsible steps to strengthen its [traction power maintenance] program...". The FWSO is continuing with the safety blitz relative to yard vehicle securement and red signal violations.

FUNDING IMPACT:

| Define current or potential funding impact, including source of reimbursable funds. | | |
|---|---|--|
| Project Manager: | Patrick Lavin, CSO | |
| Project | SAFE | |
| Department/Office: | Necessary funding is within approved annual budget. | |

TIMELINE:

| Previous Actions | Previous briefing February 25, 2016 |
|--|--|
| Anticipated actions after presentation | Continue to fully implement all NTSB and FTA CAPs Continue to strengthen safety culture |

RECOMMENDATION:

To inform the Board's Safety Committee of the status of safety actions relative to FTA FWSO and the NTSB.

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Washington Metropolitan Area Transit Authority

Update on FTA & NTSB Actions

Safety Committee May 12, 2016



Continue to work collaboratively

Open access and transparency

 Monthly Management Meetings

Safety Directive 16-1

Sufety Oversight for the Washington Metropolitan Area Trunsit Authority Metrorall System

UNITED STATES DEPARTMENT OF TRANSPORTATION

Federal Transit Administration

[Safety Directive No. 16-1, Notice No. 1]

Safety Directive under 49 U.S.C. § 5329 Safety Oversight for the Washington Metropolitan Area Transit Authority Metrorall System

AGENCY: Federal Transit Administration (FTA), U.S. Department of Transportation (DO',),

SCMMARY: FTA Safety Directive 16.1 outlines how the FTA will exercise leadership user the Tri-State Oversight Committee (TOC) as part of the FTA's direct oversight of the sefery of the Washington Metropolitan Area Trausti Authority (WMA'TA) rail system. It realigns the work that the TOC will perform under the direction of FTA and identifies responsibilities FTA will assume to accomplish the existing Sules Safety Oversight Program requirements under current folicml law and regulations. This action is emponery until such time as Virgiria, Maryland and the District of Columbia replace the TOC with a new State Safety Oversight Agency that is fully compliant with 49 U.S.C. §3529(c).

FOR FURTHER INFORMATION CONTACT: For program matters, Sean Thompson, FTA Director for WMATA Suitely Oversight, te.ephone (202) 366-3616 or Sean. Thompson@dat.gov. For legal matters, Scott Biels, Senior Course, FTA, (202) 386-60826 or Seat. Biels/Biods, or Senior Course, FTA, (202) 386-60826 or Seat. Biels/Biods, or Senior Course, FTA, (202) 386-60826 or Seat.

SUPPLEMENTARY INFORMATION:

Background

The Iri-State Oversight Committee (TOC) conducts safety oversight of the WMATA rail system, us required by the Federal regulations at 40 C.F.R. Part 659, and under the terms of a Memorandum of Understanding (MOU) among the Disarteet of Columbia, State of Maryland, and Commonwealth of Virginia. TOC will continue to conduct a baseline evel of safety oversight of the WMATA rail system and the other pursuitions establish a Sarte Safety Oversight Program certified by the FTA us compliant with the standards for State Safety Oversight under 49 U.S.C. \$32906.

TOC has no logal authority for enforcement of its findings and recommendations for the safety of WMATA's rail system. TOC has no enabling legislation, administrative code, or regulations, nor is it a restruct of law of any of the three jurisdictions. However, in accordance with the

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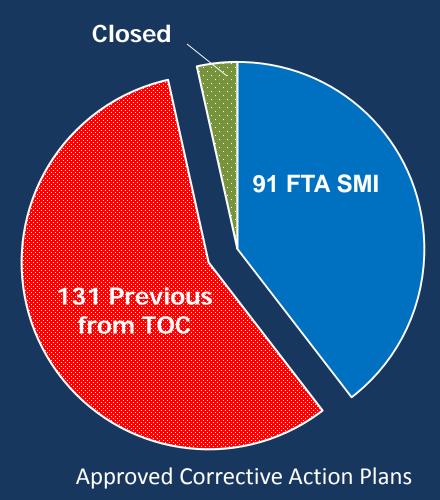
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- 91 CAPs equal 732 individual actions
- Re-examined and merged TOC CAPs
- 445 actions submitted,
 8 CAPs closed
- All will be addressed



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 Received the FTA FWSO Program Standards and Procedures

 Submitted System Safety Program Plan (SSPP) for approval

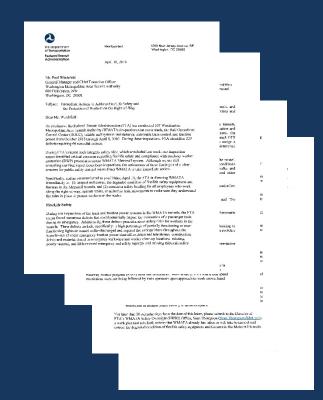
Submitting/finalizing accident and incident reports



- FWSO performed over 109 field inspections
- FWSO performing three-part "safety inspection blitz"
 - Track integrity
 - Red signal overruns
 - Rail vehicle securement
- FWSO Safety and Security Triennial Audits performed by TOC personnel; five in 2016



- Track integrity, one of three-part "safety inspection blitz"
 - Over 20 FWSO staff
 - Inspected 60 miles over six days
 - Awaiting official report
 - Fire/Life safety
 - Infrastructure
 - Compliance
 - FWSO recognized improvements





NTSB Recommendations and Reports

- NTSB Recommendations
 - 24 of 29 original closed
 - Four immediate, additional from L'Enfant incident
- NTSB Report on L'Enfant Smoke and Arcing Incident
 - NTSB Board meeting held May 3, 2016





NTSB Recommendations and Reports

- NTSB Report on L'Enfant Smoke and Arcing Incident Public Board Meeting
 - Accident report to NTSB Board accepted
 - 43 findings identified
 - 31 total recommendations; 24 new to Metro
 - Recommendations range from new/revised policies and procedures to training to infrastructure improvements and drills/testing
 - FTA/FRA comparison within appendix
- Corrective action plans will be developed
- Staff will return with additional details