



Massachusetts Bay Transportation Authority

FTA Safety Management Inspection Update

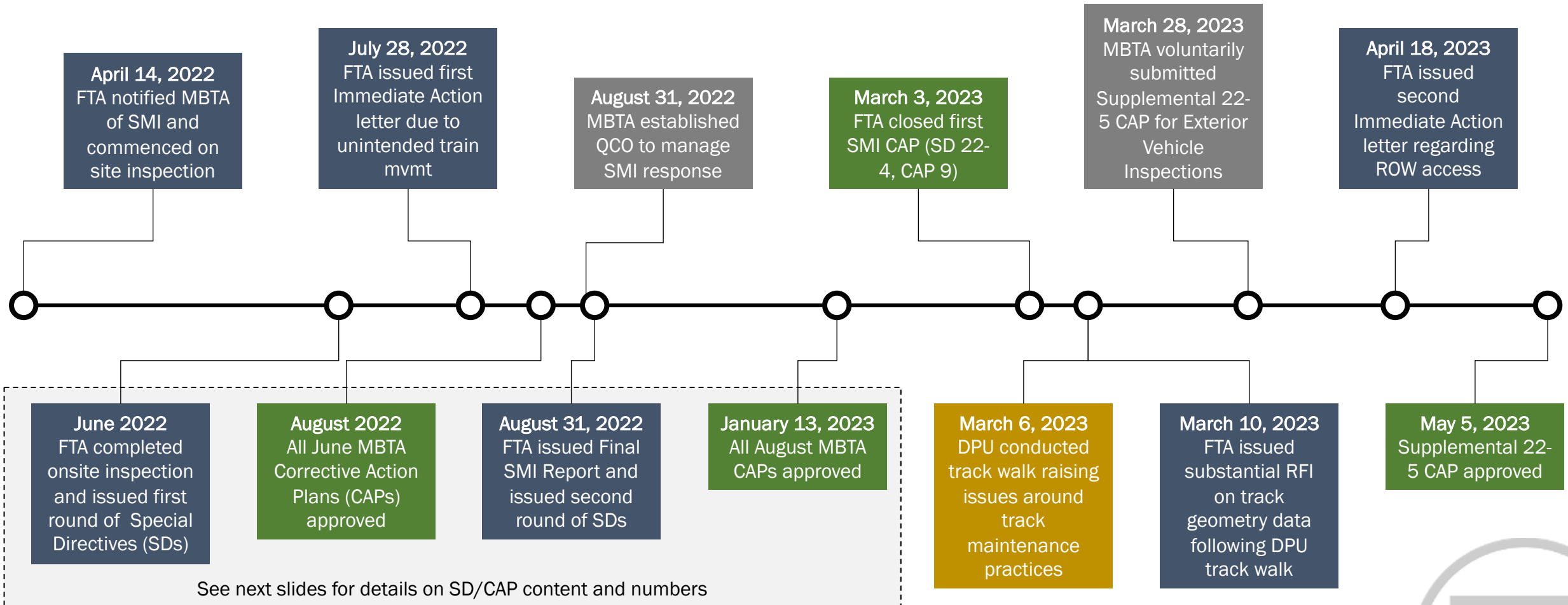
MBTA Full Board Meeting

May 25, 2023

Katie Choe, Chief of Quality, Compliance & Oversight



FTA initiated the SMI just over a year ago in April 2022



FTA SMI outcome and response by the numbers

8

Special Directives

42

FTA Findings

69

Required Actions

FTA issued a total of eight special directives to the MBTA with findings and required actions MBTA must do

39

Corrective Action Plans

599

Action Items

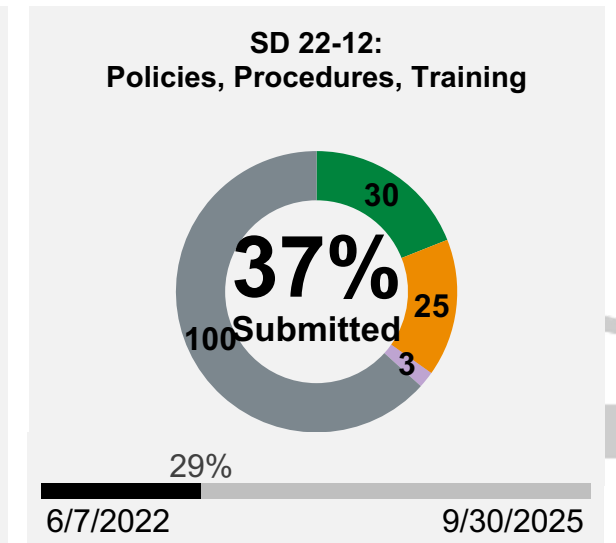
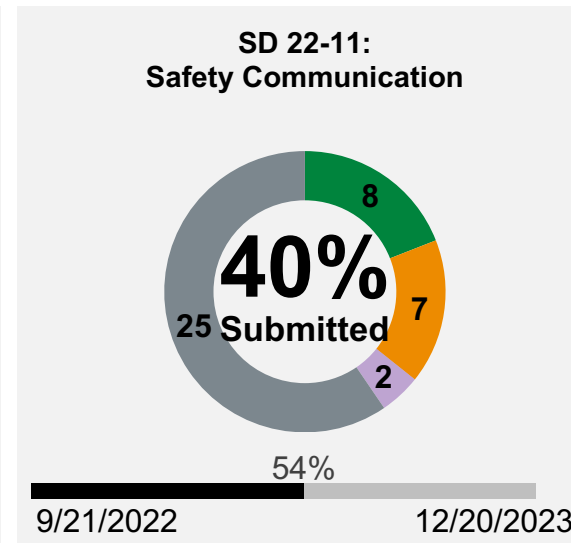
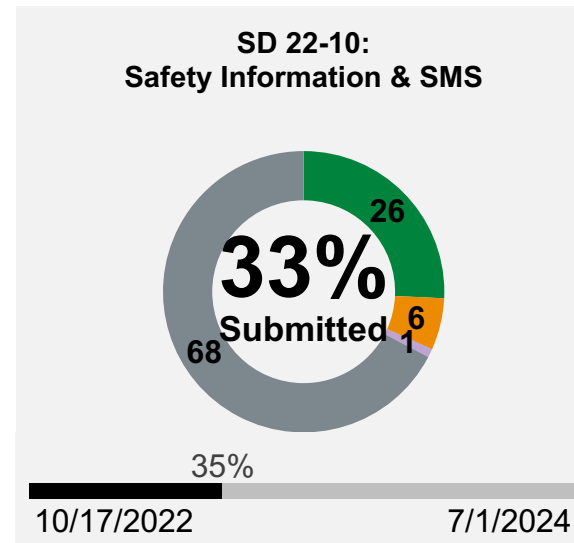
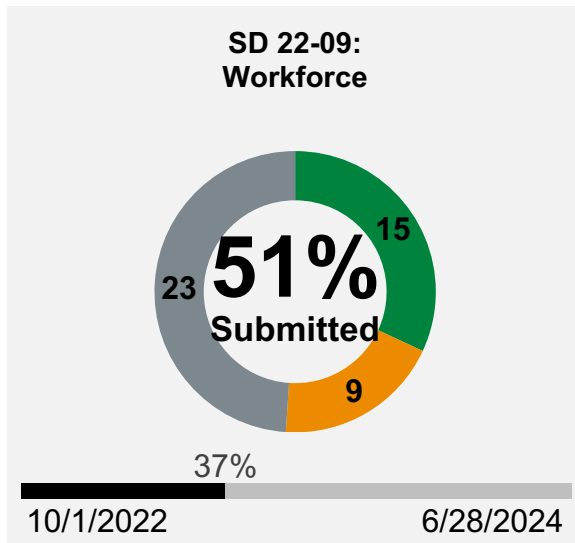
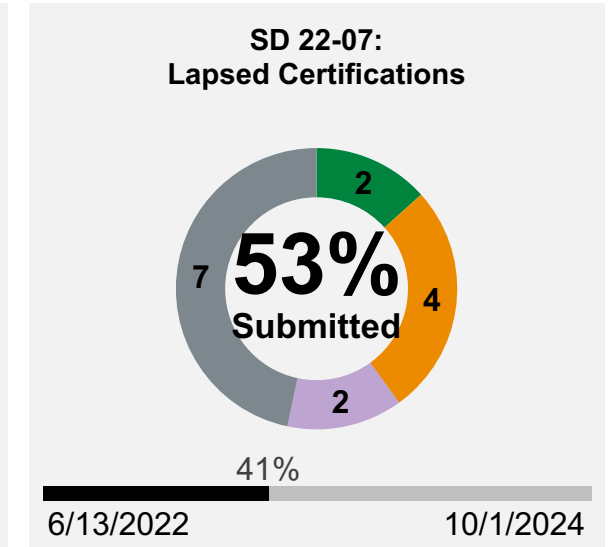
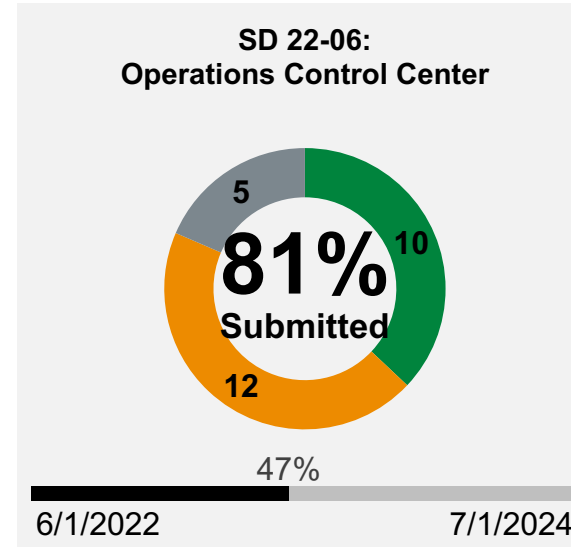
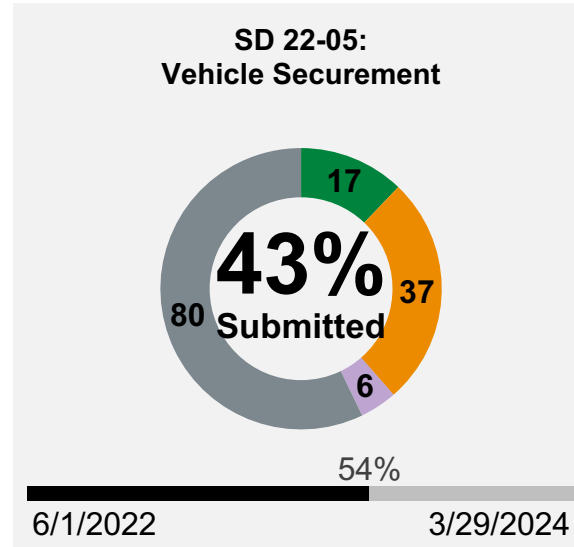
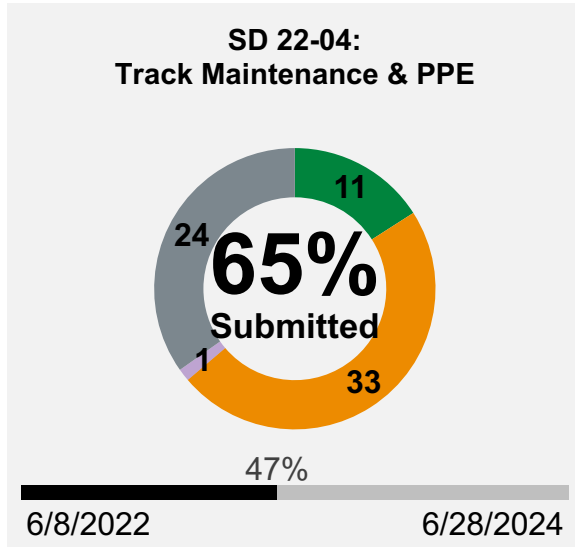
MBTA developed Corrective Action Plans (CAPs) in response which the FTA monitors; for each action item within the CAPs MBTA submits supporting documentation

QCO was
established
to respond to
the FTA's SMI

Submissions Accepted
Under FTA Review

Resubmittal Required
Not Yet Submitted

FTA SMI Response Progress Summary



SD 22-05: New Supplemental CAP Approved by FTA

During the process of responding to SD 22-05, MBTA, in collaboration with FTA, has identified further opportunities to improve management processes of our rail vehicle fleet.

New Supplemental CAP: A Project Improvement Plan for enhanced inspection procedures for the exterior of trains prior to revenue service was approved by the FTA as a supplemental CAP.



April 18, 2023 Immediate Action Letter

Track Access Procedures & Compliance

- Documentation Review and Verification

Track Access Capacity

- Analysis of Radio and Communication Protocols
 - Audit of radio communication for 30 day period complete, to be submitted 5/5/2023
- Analysis of Work Crew Limitations per Line
- Analysis of Track Access Tools & Documents

ROW Rules Compliance & Safety Work Plan

ROW Training Revisions

- Accelerated ROW Training Timeline
- New Practical Module & Revised Content
- Retrain All Personnel



ROW Addendum Curriculum Training for immediate re-training

- Two-hour classroom (or computer module under development) + two-hour practical element
- Re-training began on Monday, May 15th
- Running training 24-hrs during the week – over 400 students were registered for this class in the first week
- Approximately 3,000 employees and contractors are prioritized for training prior to June 15



MBTA is realigning priorities with the FTA using two approaches



- Restructuring key CAPs
- As we've been executing select CAPs, we've re-evaluated how best to structure our work to be responsive to FTA required action
- Accordingly, MBTA requested to re-write those CAPs in collaboration with the FTA



- Negotiating deadline extension
- Given the recent Immediate Action Letter and the significant focus it has taken, MBTA negotiated with the FTA to extend deadlines on 15 upcoming action items across 10 of our CAPs for up to six months



SMI Response Progress Summary

SD 22-04 Track Maintenance & PPE

- F3: Raised Tufts Curve Speed Restriction from 10MPH to 18MPH
- Cologne Egg Replacement Complete
- New rail installed
 - Punch list items underway
 - Final cleanup and removal of all OTM (other track material)
 - FTA walk and inspection



Questions?



Appendix



■ Submissions Accepted
■ Under FTA Review

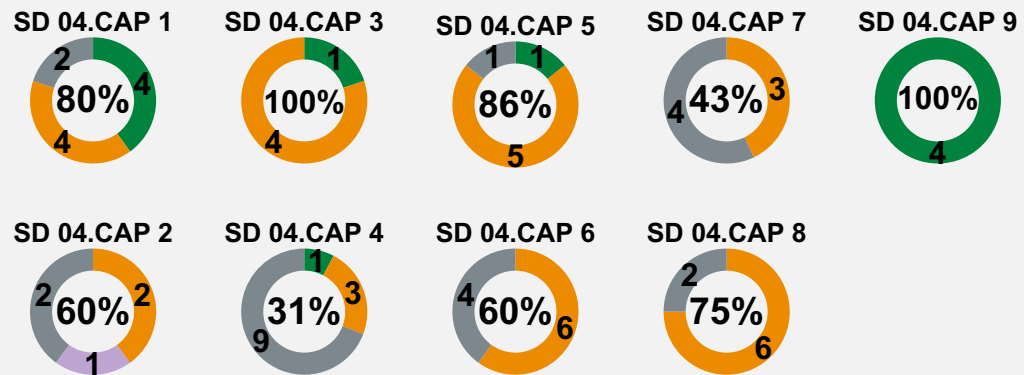
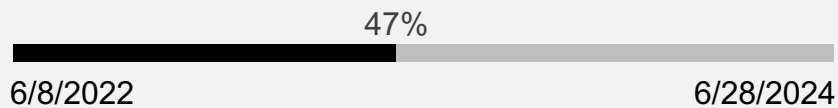
■ Resubmittal Required
■ Not Yet Submitted

SD 22-4: Track Maintenance & PPE

- F1: Administered On-Site PPE Fairs to distribute Updated PPE to Employees
- F2: Developed and Implemented PPE & ROW Compliance Program
- F3: Raised Tufts Curve Speed Restriction from 10MPH to 18MPH. Cologne Egg replacement complete.
- F4: Received recommendations for ROW planning and maintenance efficiency improvements
- F5: Submitted budget requests for MOW equipment and resource needs
- F6: Developed Capital Funding Request & Plan for Accelerated Implementation of EAM
- F7: Developed and Implemented New Weekly Speed Restriction Report for Executives
- F8: Worked with MOW and CT to update SMRP to account for new speed restrictions
- ✓ F9: Restored Green Line Work Train to Working Order – CAP CLOSED

By the Numbers:

- 9 Findings: 1 Closed, 8 Ongoing



Submissions Accepted
Under FTA Review

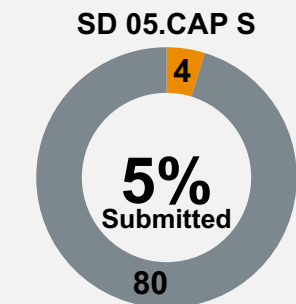
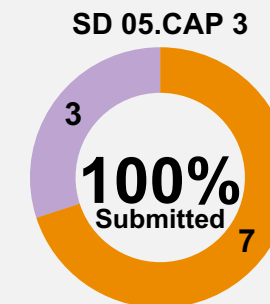
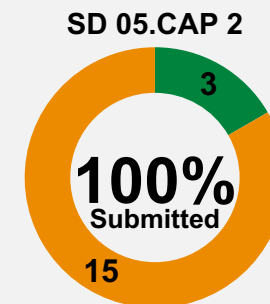
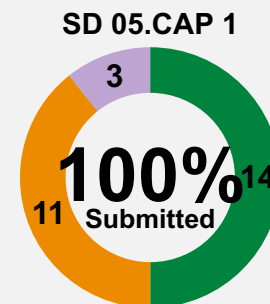
Resubmittal Required
Not Yet Submitted

SD 22-5: Vehicle Securement

- F1: Submitted Supplemental CAP for Pre-Trip Inspections
- F2: Completed Training of All Heavy and Light Rail Personnel
- F3: Implemented Compliance Program for Safe Movement
- Supplemental: Determined locations for pilots on Red, Blue and Orange line pilots; determined key inspection equipment; developed procedure for enhanced pre-trip inspection on Orange line

By the Numbers:

- 3 Findings: 0 Closed, 3 Ongoing



Submissions Accepted
Under FTA Review

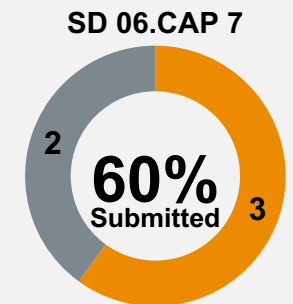
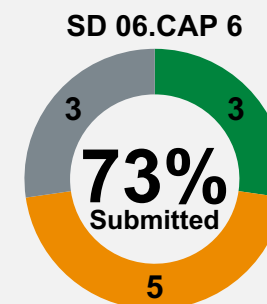
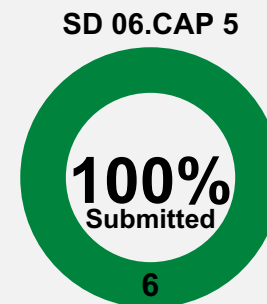
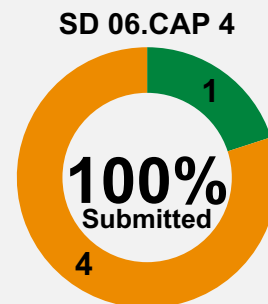
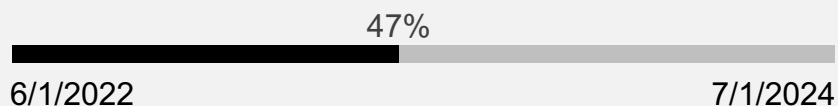
Resubmittal Required
Not Yet Submitted

SD 22-6: Operations Control Center

- F1: Ensured that staff working in OCC are certified
- F2: Established policies to ensure OCC staff have sufficient time off between shifts
- F3: Established Operating Procedures to Ensure No Staff Performing Dual Roles
- F4: Ensured 100% Compliance with Work Hour Restrictions
- F5: Staffed to 26 Dispatchers Including Supplemental Resources
- F6: Developed and approved updated layout plan for the OCC
- F7: Recertified 100% of OCC Staff

By the Numbers:

- 7 Findings: 0 Closed, 7 Ongoing



Submissions Accepted
Under FTA Review

Resubmittal Required
Not Yet Submitted

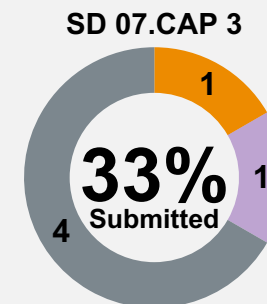
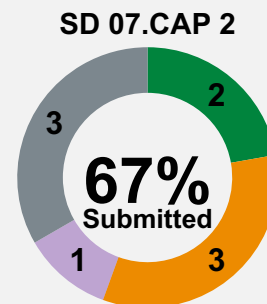
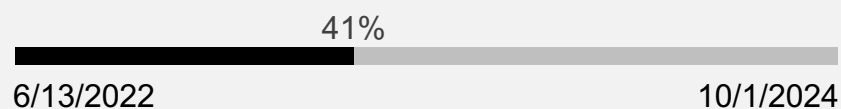
SD 22-7: Lapsed Certifications

- F1: Ensured 100% of Operating Personnel Are Current in Certifications
- F2: Ensured 100% of Operating Personnel Are Current in Certifications
- F3: Ensured 100% of Operating Personnel Are Current in Certifications

Designing and Implementing Certification Management Procedures

By the Numbers:

- 3 Findings: 0 Closed, 3 Ongoing



Submissions Accepted
Under FTA Review

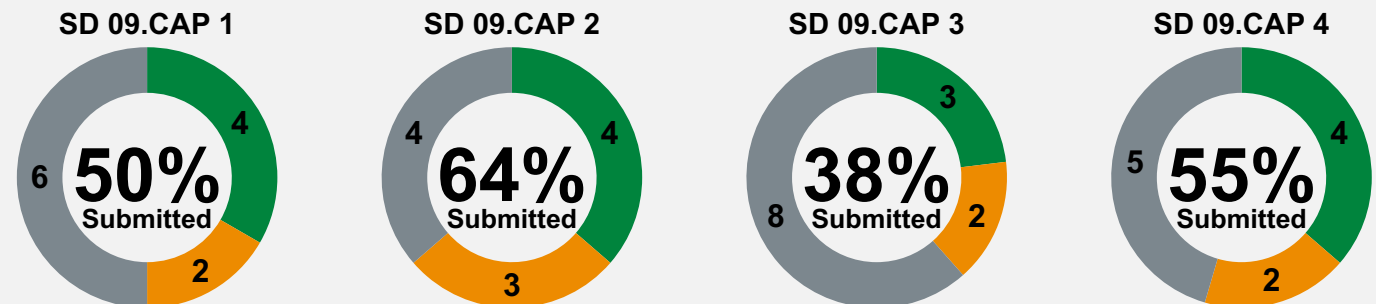
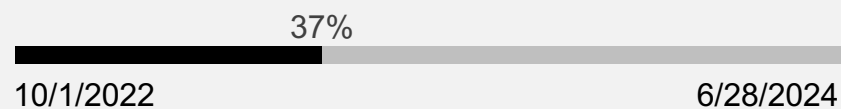
Resubmittal Required
Not Yet Submitted

SD 22-9: Workforce

- F1: Began Workforce Assessment
- F2: Developed HR best practices list in preparation to support hiring plan
- F3: Selected Safety Engineering & Certification Program Consultant
- F4: Implemented Contractor Outreach and Engagement Program

By the Numbers:

- 4 Findings: 0 Closed, 4 Ongoing

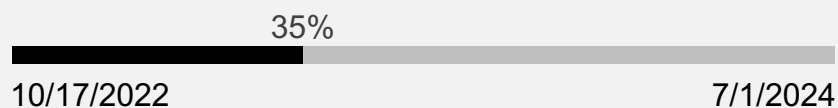


SD 22-10: Safety Information & SMS

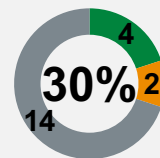
- F1: Onboarded consultant for SMS Implementation
- F2: Onboarded consultant for Executive Communication
- F3: Developed map of safety data sources across the Authority
- F4: Onboarded consultant for Safety Assurance Process
- F5: Onboarded consultant for Safety Risk Assessment
- F6: Onboarded consultant for Safety Risk Monitoring

By the Numbers:

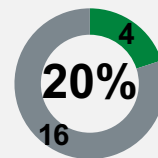
- 6 Findings: 0 Closed, 6 Ongoing



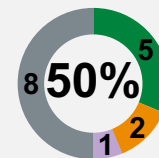
SD 10.CAP 1



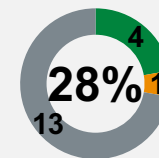
SD 10.CAP 2



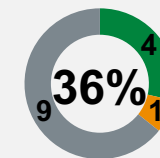
SD 10.CAP 3



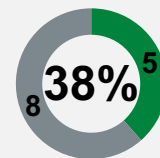
SD 10.CAP 4



SD 10.CAP 5



SD 10.CAP 6



Submissions Accepted
Under FTA Review

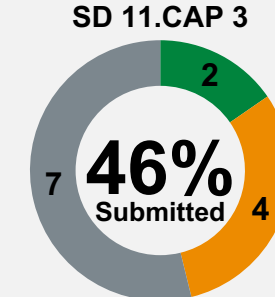
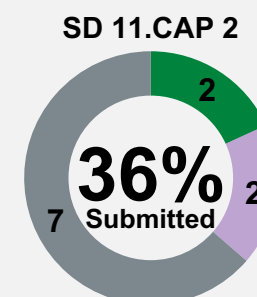
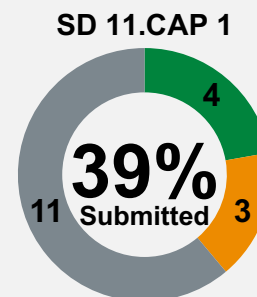
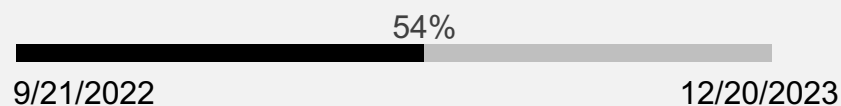
Resubmittal Required
Not Yet Submitted

SD 22-11: Safety Communication

- F1: Established Meeting Manager Cohort and Peer Sharing
- F2: Scheduled & Published Local Safety Committee Meeting Series
- F3: Published Employee-Focused Safety Helpline SOP

By the Numbers:

- 3 Findings: 0 Closed, 3 Ongoing



■ Submissions Accepted
■ Under FTA Review

■ Resubmittal Required
■ Not Yet Submitted

SD 22-12: Policies, Procedures & Training

- F1: Engaged Frontline Workers Formally in Rules Compliance and Rules Reviews
- F2: Began Rulebook Review and Revision Process
- F3: Issued Quality Management Plan & Monthly Executive Briefing
- F4: Began Revision and Formal Documentation of Training Curricula
- F5: Engaged Technical Expertise for Digitization of Procedures
- F6: Selected Technical Support for Expanded Mentorship Program
- F7: Completed Repairs on 17 of 18 Radio Weak Spots

By the Numbers:

- 7 Findings: 0 Closed, 7 Ongoing

