



Massachusetts Bay Transportation Authority

FTA Safety Management Inspection Update

MBTA Safety, Health & Environment Committee Meeting

May 9, 2024

Meredith Sandberg, Chief of Quality, Compliance & Oversight



SD 22-5 CAP 1 Closed | Enhanced Vehicle Procedures

Safety Inspection/Car House Circle Check for Heavy Rail Vehicle Movement in Yards

Yard Motorperson Name: _____ Date: _____ Yard Name: _____
 Yard Motorperson Badge: _____ Time: AM PM Yard Move: _____
 (If Yes) (If No)

Safety Inspection Checklist

In the corresponding box, place an "X" for items that pass inspection with no defects found and "X" for defects.

Items confirmed to be inspected

Car Number	1	2	3	4	5	6	7	8	9	10	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											

Check the position of all circuit breakers (3A and 600V) and verify they are in the expected position.
 Confirm there is sufficient air pressure in the main reservoir and brake air.
 Confirm all trips are in the proper position. (Cut in)
 Confirm main reservoir and auxiliary air brake (CAR HOUSE) are in the normal position and brake cylinder has adequate air pressure between 90 and 95 PSI.
 Check the projection (Type/Rate) indicators are in the normal position to check for clear signals.
 Use all call windows to visually check for exterior defects, including: mechanical, or other hazards.
 Verify: Are both horns on operating ends working?
 Headlights: Are both headlights on operating ends working?
 Heater & Ventilator: Are heater & ventilator illuminated on both ends?
 Multi-person moves: Confirm a means of communication with all involved crew, before, during, and after.
 Coupling: Verify after cars are mechanically coupled, test the tight fit and correct and apply area notes of minor, those mechanical aspects by Train-Line Yard. After attempting to train line, confirm marker/lighting bars are the workability of all train line.
 Car House Circle Check (CCH) items only

Items to be inspected

All vehicles DO NOT have personnel working on, in, under, or inside at ground level.
 All inspection tags, side tags and stop powered equipment are displayed and used in the correct manner.
 Verify that the condition of the brake shoes, contact shoes and third shoes meets the requirements from the safety bulletin.
 Verify that magnetic blue lights are not installed on both sides of the vehicle.
 Verify the height of side air cap or third shoes, warning or other, (side tags, labels, etc.)
 Interior and exterior panels and wiring are properly secured.
 Blue Line car house doors: Ensure the door armature/straps is fully retracted and confirm a qualified car house employee is present and in a safe area to address the door issue.
 Yard Motorperson/Badge # & Signature: _____
 Yardmaster or official/Badge # & Signature: _____
 Foreperson/Badge # & Signature: _____
 (Car House Circle Check (CCH))

Orange Line Vehicles Exterior Vehicle Inspection (EVI)

All items below must be inspected and any defects MUST be reported immediately reported to Trainmaster and Train lead out of service.

Date: _____ Time: _____ am/pm Location: _____
 Vehicles: (SOUTH TO NORTH) 1 2 3 4 5 6

Place an "X" for a defect in the corresponding box

Exterior Inspection	Guard Side					Motorperson Side				
	1	2	3	4	5	1	2	3	4	5
Brakes: Inspect for missing brake shoe or damaged brake shoe.										
Shunt Straps: Inspect for missing, or broken shunt straps.										
Componented Doors: Inspect for open, missing, hanging, or unsecured doors.										
Body Panels: Inspect for any bent, protruding, hanging, or visibly loose panels that could pose a hazard.										
Air Hoses or Cables: Inspect for hoses/cables that make contact with the ground.										
Idle Cables: Inspect for damage/bent or broken trip arm.										
3rd Rail Contact Shoe: Inspect for missing contact shoe.										
Comments										

Inspected by: Name: _____ Badge No. _____
 I confirm that I inspected the vehicles listed and found no visible defects.

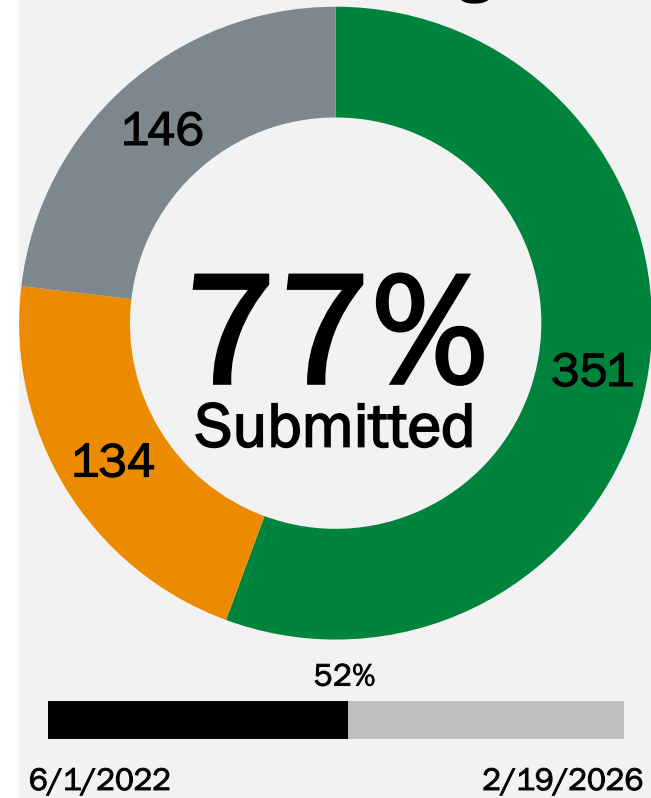
Inspected by: Name: _____ Badge No. _____
 I confirm that I inspected the vehicles listed and found no visible defects.

NOTE: *Yard Motorperson MUST be present at yard when performing testing of audible components with external speakers.
 *Automated announcements only applicable to Blue Line (700 series, Orange Line 1400 series, & Red Line 1800/2000 series cars.

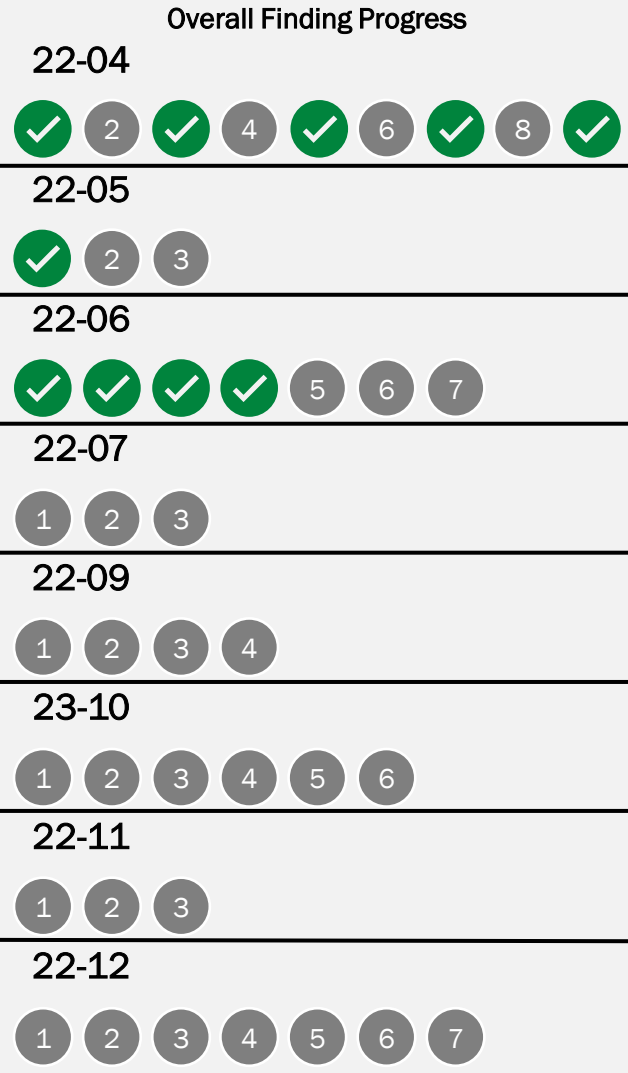
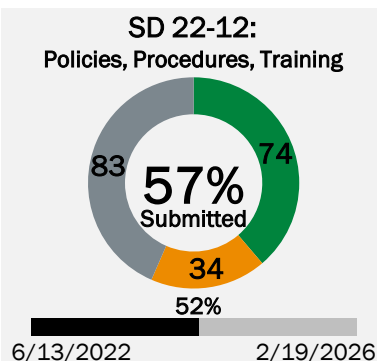
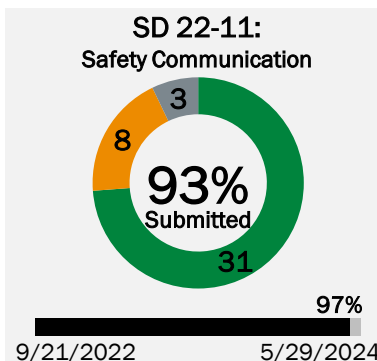
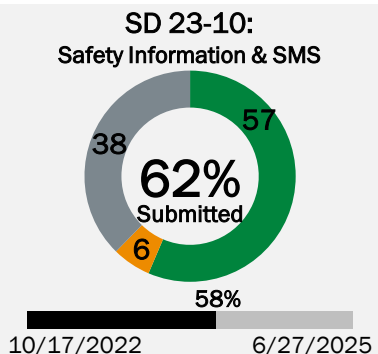
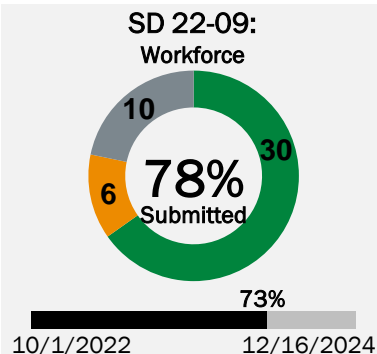
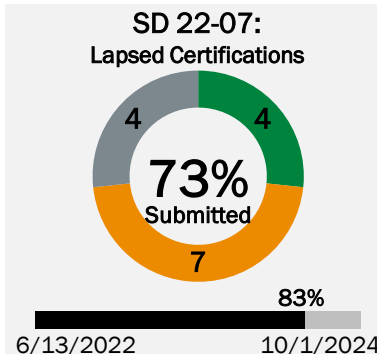
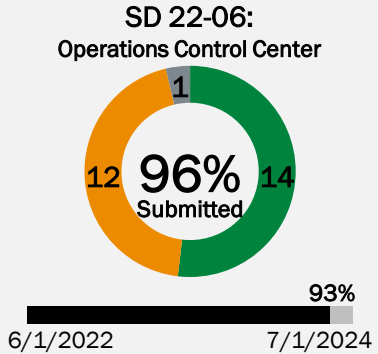
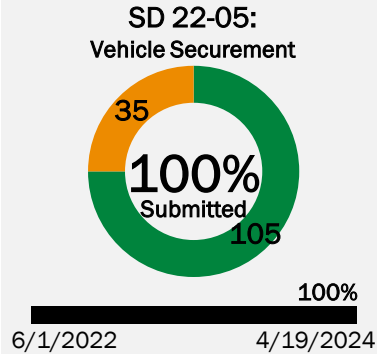
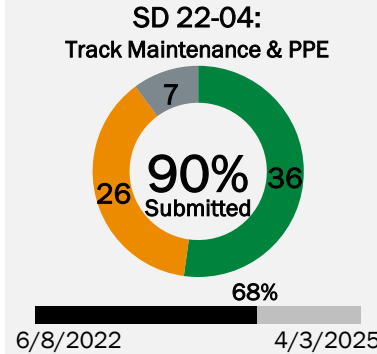


FTA SMI Response Progress Summary

Overall CAP Progress¹



Overall Findings	Total	42
	Closed	10
	Ongoing	32



✓ Finding Closed

1. Total of 631 actionable items; inclusive of updated 23-10 & 23-12 CAPs, does not include IAL items



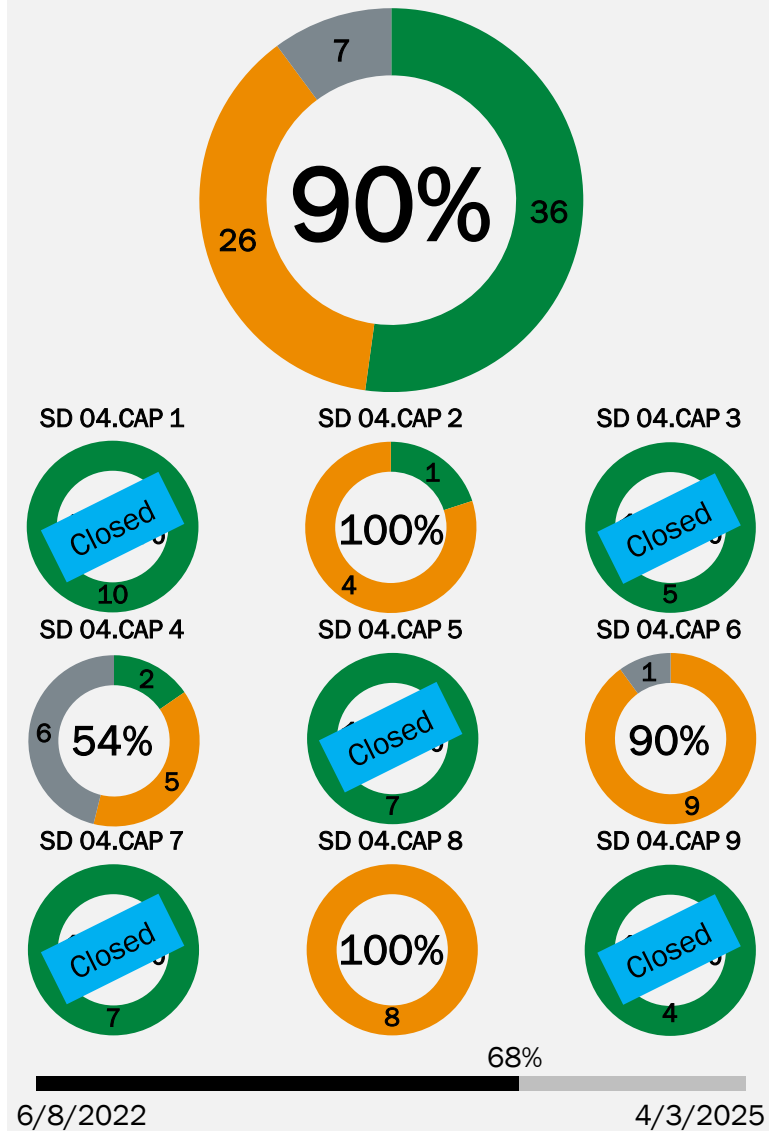
Questions?

Appendix

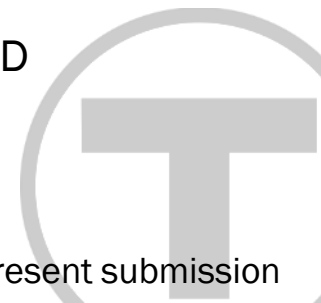


SD 22-4: Track Maintenance & PPE

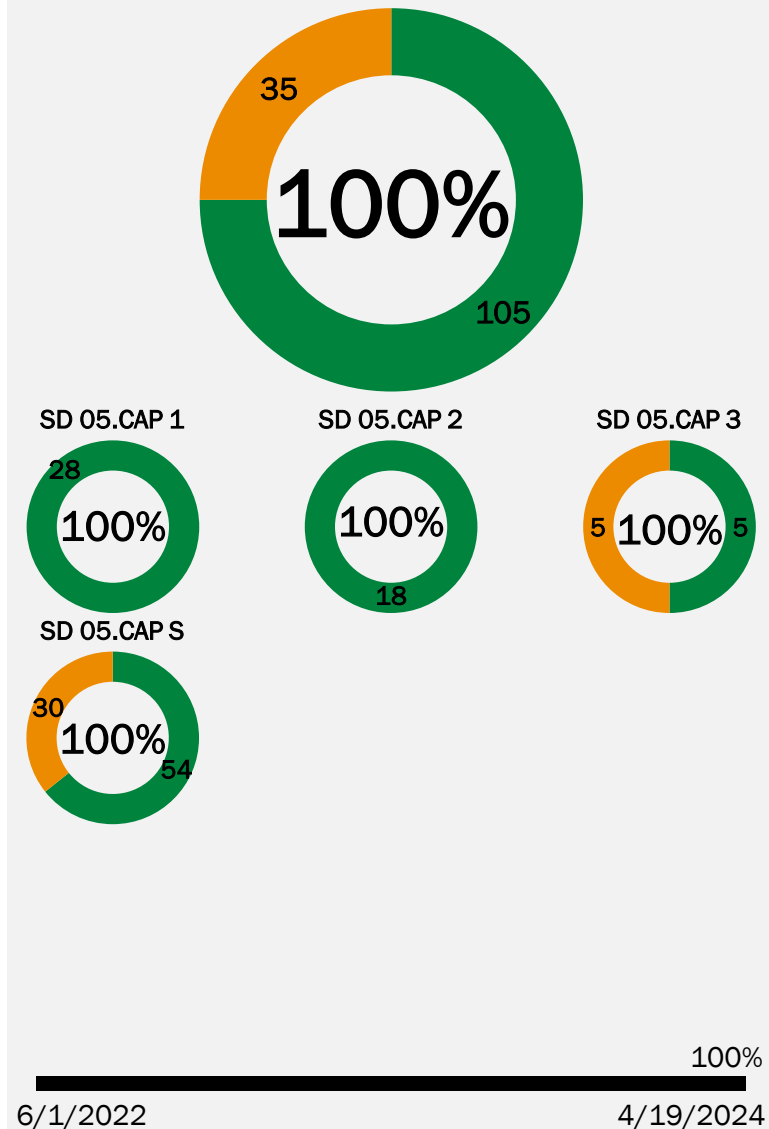
- ✓ F1: Published updated Rulebook for Operations Employees incorporating PPE requirements – CAP CLOSED
- F2: All action items completed CAP CLOSURE REQUESTED
- ✓ F3: Raised Tufts Curve Speed Restriction after completing Cologne Egg replacement – CAP CLOSED
- F4: Developed schedule for ROW Access for MOW – Track Improvement Program (TIP) – relief approved for remaining action items on 2/21/24
- ✓ F5: Submitted budget requests for MOW equipment and resource needs – CAP CLOSED 12/22/23
- F6: Developed Capital Funding Request & Plan for Accelerated Implementation of EAM – Trapeze demo provided to FTA during April on site
- ✓ F7: Developed and Implemented New Weekly Track Conditions Report for Executives – CAP Closed 2/9/24
- F8: Submitted SMRP metrics to FTA for our quarterly update 3/29/23 CAP CLOSURE REQUESTED
- ✓ F9: Restored Green Line Work Train to Working Order – CAP CLOSED



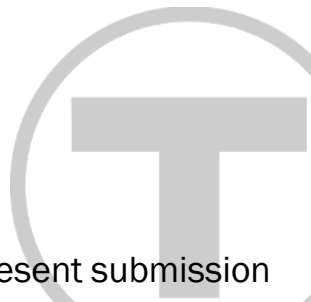
6/8/2022 4/3/2025



SD 22-5: Vehicle Securement

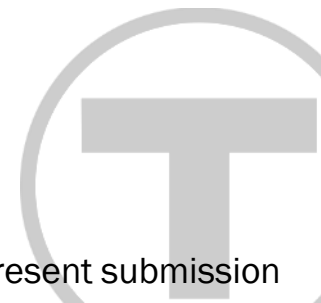
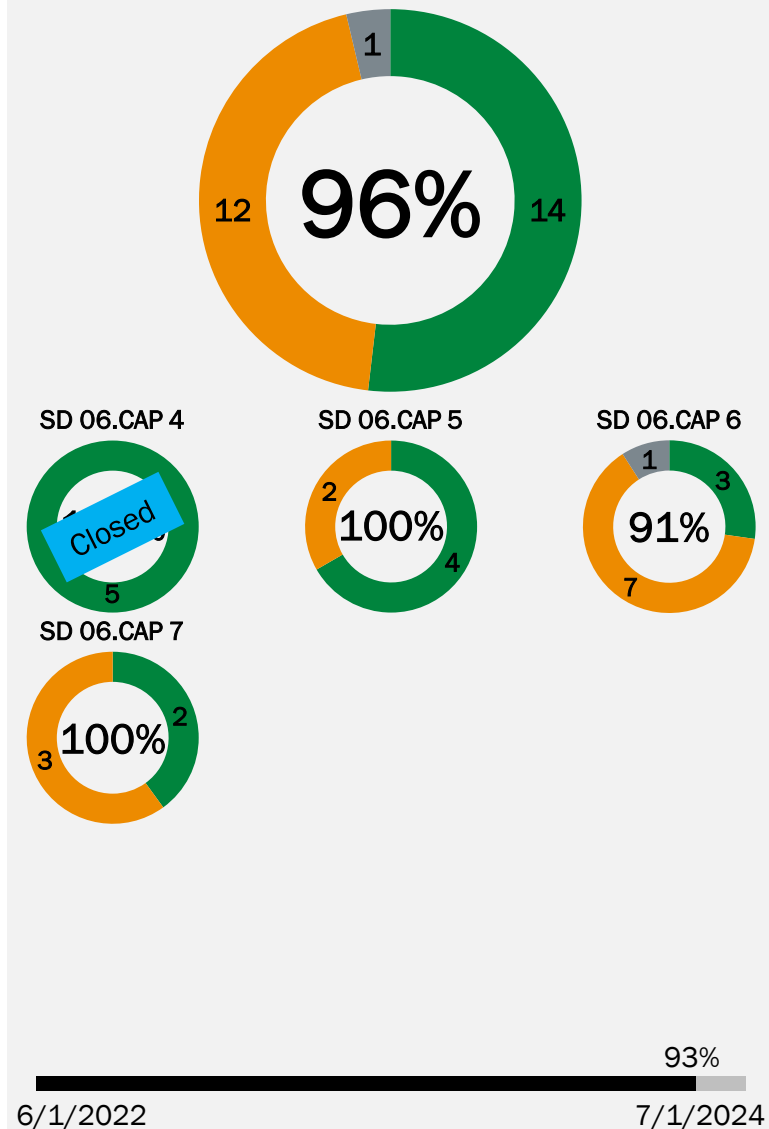


- F1: Procedures for Safe Movements of Rail Vehicles– all action items completed CAP CLOSURE REQUESTED
- F2: Training for SMRV Procedures – all action items completed CAP CLOSURE REQUESTED
- F3: Implemented Compliance Program for Safe Movement, all action items completed CAP CLOSURE REQUESTED
- Supplemental: All action items completed. Under FTA review.

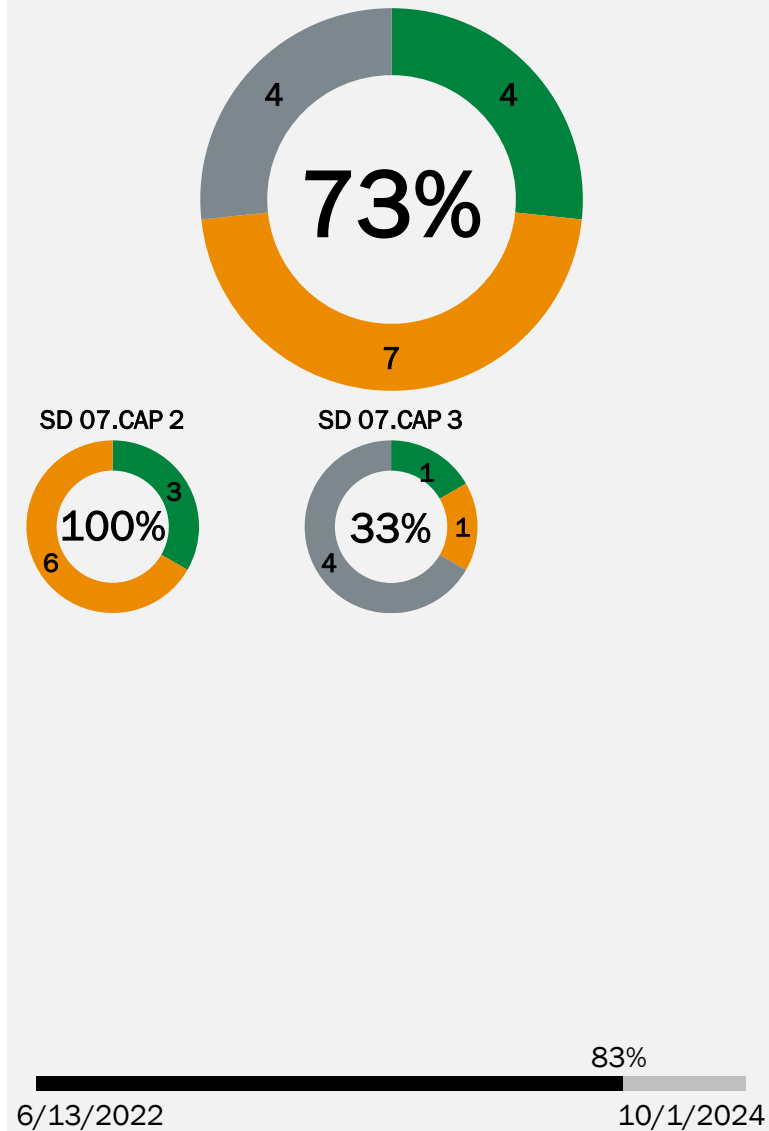


SD 22-6: Operations Control Center

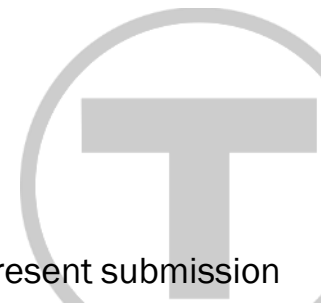
- ✓ F1: Ensured that staff working in OCC are certified – FINDING CLOSED
- ✓ F2: Established policies to ensure OCC staff have sufficient time off between shifts – FINDING CLOSED
- ✓ F3: Established Operating Procedures to Ensure No Staff Performing Dual Roles – FINDING CLOSED
- ✓ F4: Ensured 100% Compliance with Work Hour Restrictions – CAP CLOSED
- F5: Staffed to 27 RTL Dispatchers Including Supplemental Resources - all action items completed, under FTA verification
- F6: Implementing plan to make OCC role more attractive (OCC renovation in design phase) – Held PDG meeting for design & construction of new OCC room.
- F7: **Updating materials for specialized dispatcher training.**



SD 22-7: Lapsed Certification Process

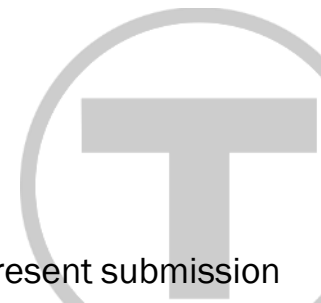
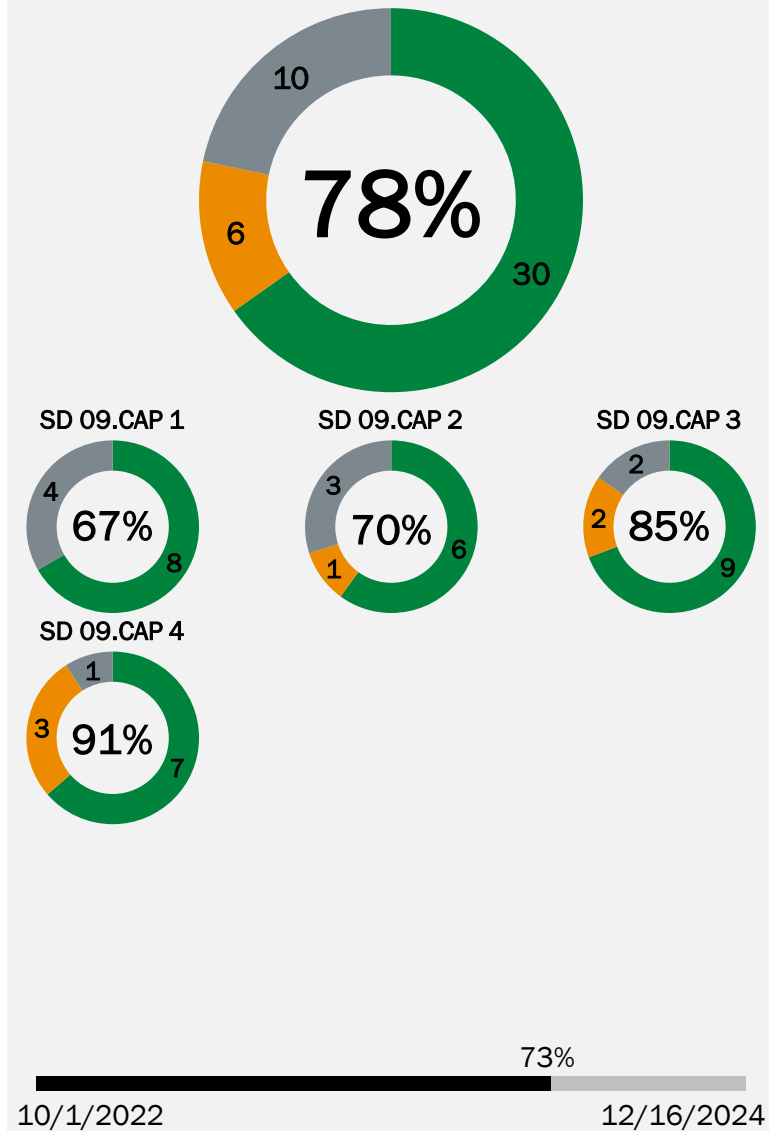


- F1: Ensured 100% of Operating Personnel Are Current in Certifications – Finding Closure Requested in Fall 2023. Quarterly report for rest violations showing 99.9% compliance submitted to FTA on 4/8/24.
- F2: Ensured 100% of Operating Personnel Are Current in Certifications – all action items completed.
- F3: Ensured 100% of Operating Personnel Are Current in Certifications; Designing and Implementing Certification Management Procedures - dashboard went live 2/1/24.

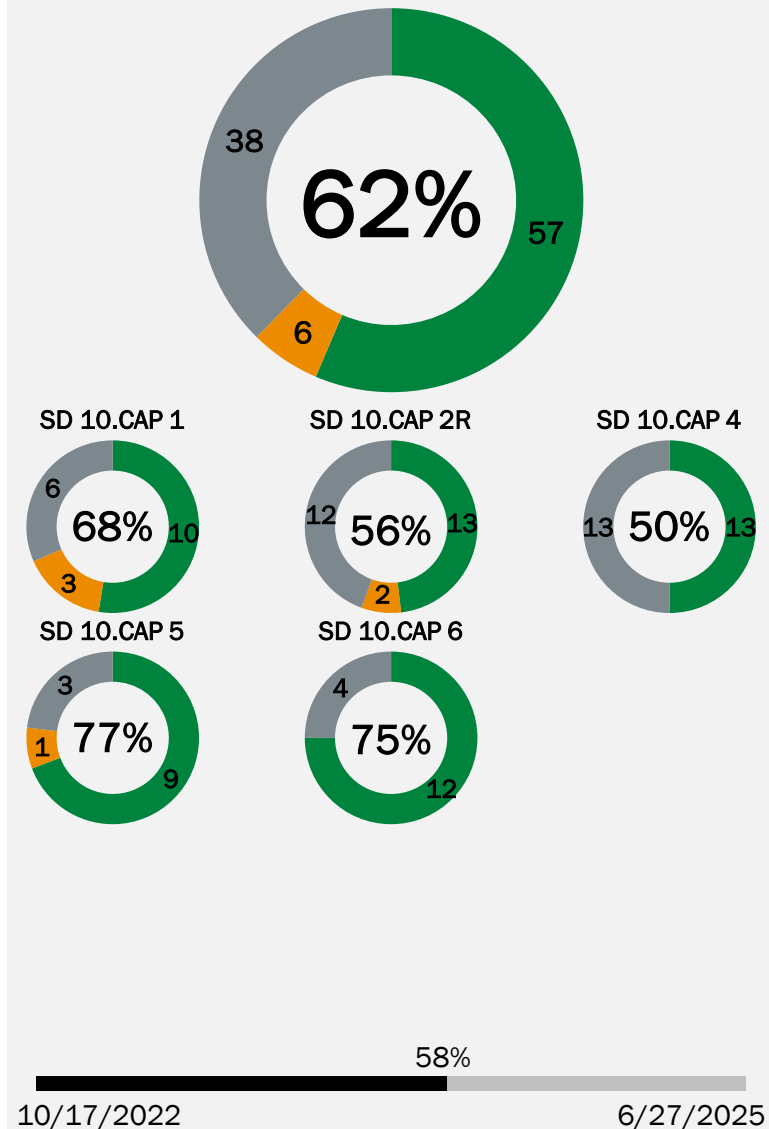


SD 22-9: Workforce

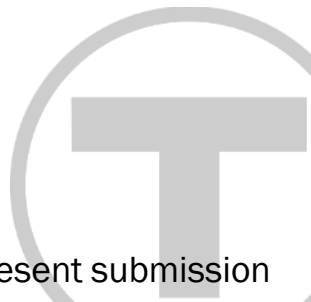
- F1: Workforce Assessment: Progressing toward completing dependency WFA modeling.
- F2: Hiring Plan: Developing prioritization framework for the hiring plan.
- F3: Implementing training plan for updated Safety Certification policy.
- F4: Contractor Oversight: All action items completed.



SD 23-10: Safety Information & SMS

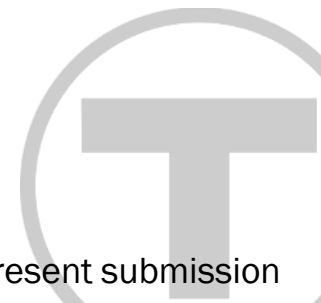
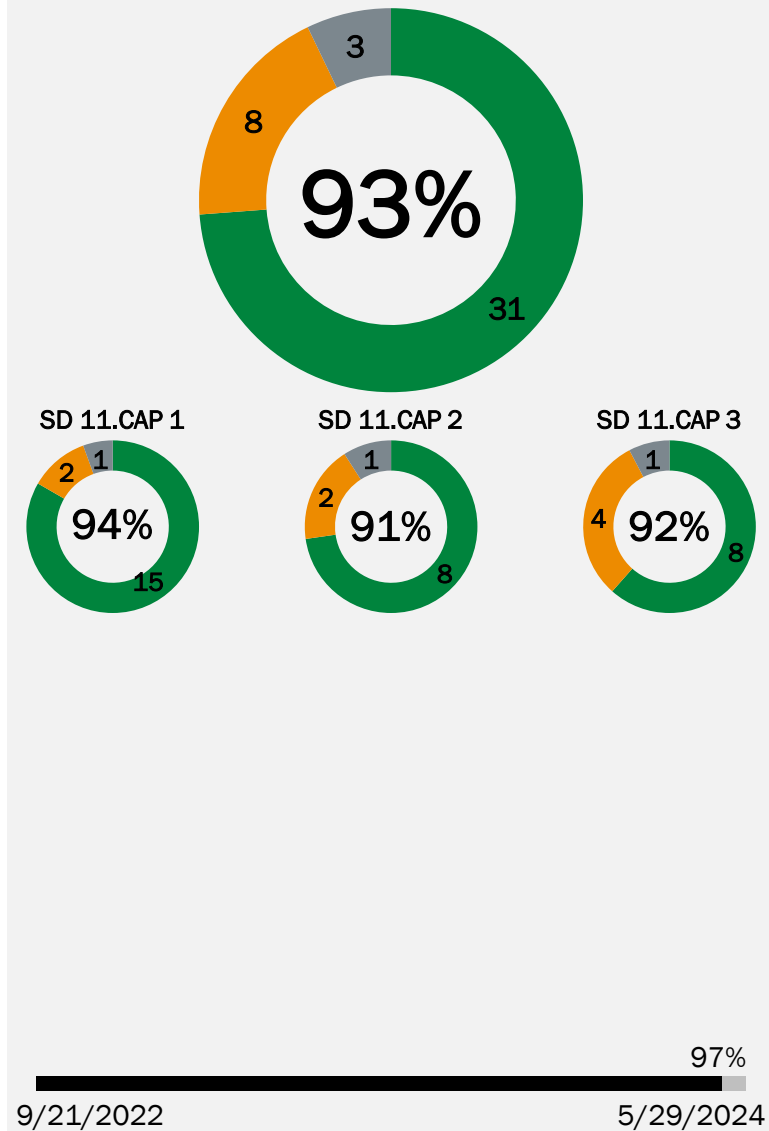


- F1: Developing second draft of SMS implementation plan to close gaps and implement SMS.
- F2/F3: Established safety risk tiers
- F4: Completed backlog of reports
- F5: Identified gaps Safety Risk Assessment Training
- F6: Evaluated Safety Data products
- Completed Safety Department Staffing Analysis and submitting weekly hiring updates to FTA, completed Strategic Hiring Plan

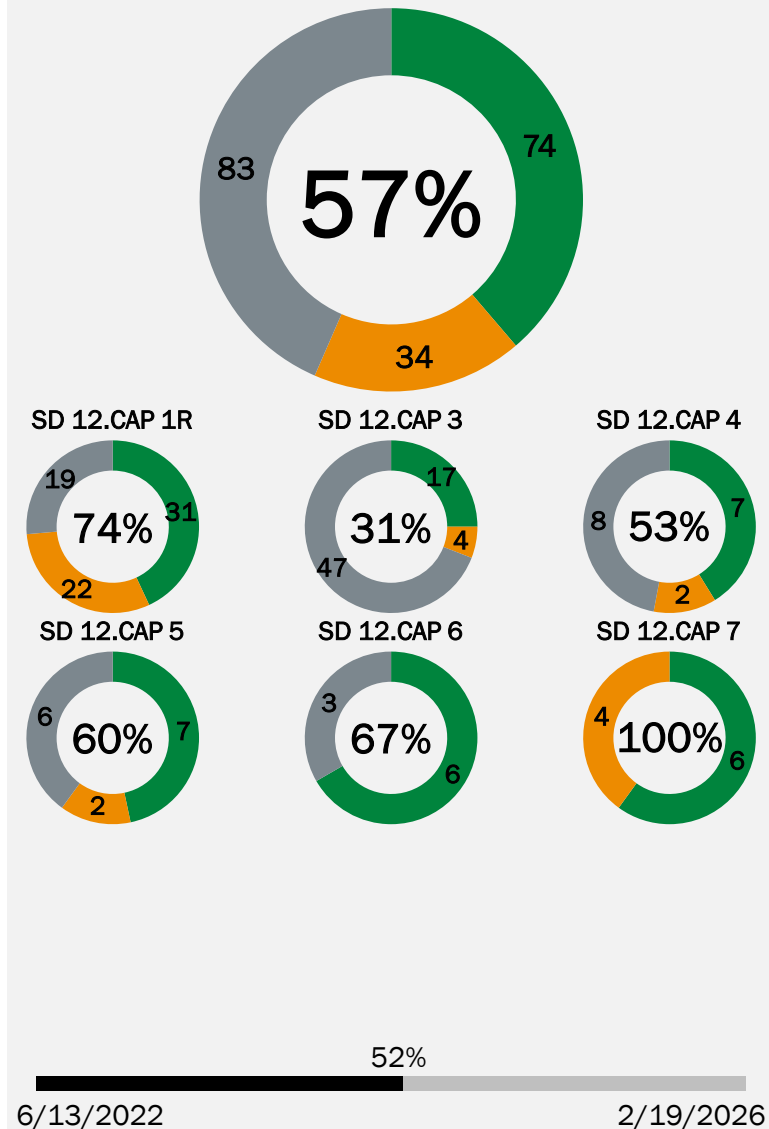


SD 22-11: Safety Communication

- F1: All action items completed, under FTA verification
- F2: All action items completed, under FTA verification
- F3: All action items completed, under FTA verification



SD 22-12: Policies, Procedures & Training



- F1/F2: Developing process for referral and reporting on rules compliance with front line worker feedback.
- F3: Messaging the Quality Management System Manual to the Authority.
- F4: Developed Recommendations for Centralized Training Governance
- F5: Developed plan for digitization for PMIs for E&M and VM
- F6: Evaluated program design for Rail Ops mentorship
- F7: Completed all action items, FTA verified quarterly Radio Weak Spots assessment. CAP CLOSURE REQUESTED

