



Link State of Good Repair & Maintenance

Rider Experience and Operations Committee

06/01/23



Agenda

- ***Passenger Impact Portfolio Plan***
- ***Scheduled Near-term Service Disruptions***
- ***Q3 Shared Closure Considerations***
- ***Next Steps***

The purpose of this presentation is for information only. No Board action is expected today.

Passenger Impact Portfolio Plan

PROGRAM GOALS

- Coordinate and schedule projects to minimize service impacts
- Integrate this activity as a regular business function

METHODOLOGY

- Passengers are our customers
- Preservation of planned service and urgency to return to full planned service
- Minimal disruption to passengers and passenger flow
- Project delivery efficiency (shared disruptions and mobilizations)

Planned Repair and Maintenance Projects

Scheduled Near-Term Service Disruptions

	Project Type	Locations	Passenger Benefits
1	Electromagnetic Cable Hanger Improvements	UW - U District	Safety, Reliability
2	Routine Rail Replacement Program	Various Locations	Safety, Reliability
3	WSDOT Bridge Inspection	4 Stations (STDM, IDS, PSQ, USS)	N/A
4	PIMS Testing	Systemwide	Service
5	CVS Overhaul Switch Replacement	Mt. Baker and Beacon Hill Stations	Safety, Reliability
6	Puyallup Station Bulb Out Removal (Sounder)	Puyallup Station	Bus Reliability

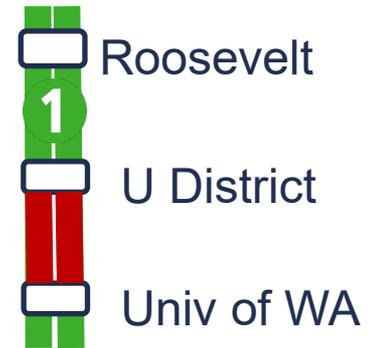
Electromagnetic Cable Hanger Improvements

Work planned for Weekends of 6/9 & 6/16

Project to improve design of hangers on the Floating Slabs in the tunnels.

- **Why this is necessary:** A safe, temporary solution is in place. This project will complete the permanent repairs.
- **Passenger benefit:** Ensure long term safety and reliability.
- **What is the fix:** New design of plates.
- **What is the expected service impact:** Nighttime single tracking (9pm to 9am) for both Friday and Saturday nights on two consecutive weekends. Normal service during the day.

to Northgate



to Angle Lake

Routine Rail Replacement Program

Work planned for every Tuesday night (5/30 – 7/25)

Replace sections of rail as a preventative maintenance

- **Why this is necessary:** These replacements are a necessary part of the overall state of good repair, which will aid in the continued useful life of the track
- **Passenger benefit:** Improves rail safety, reduces noise and vibration, and reduces long-term maintenance costs
- **What is the fix:** A series of rail replacements within sections of the trackway at the south end of the system
- **What is the expected service impact:** Nighttime single tracking in segments between Rainier Beach Station and SeaTac Station (typically 11pm to Service Start). Northbound platform will be closed on night of 6/27.



WSDOT Bridge Inspections

Work planned for Sunday, 6/4 (4am to 9am)

WSDOT will be conducting bridge inspections which will require OCS power shutdown in proximity

- **Why this is necessary:** The WSDOT inspection must be performed during daylight hours.
- **Passenger benefit:** N/A
- **What is the fix:** Routine biannual bridge inspection
- **What is the expected service impact:** Full closure of 4 stations (Stadium to University St). Bus bridging from SODO to Westlake stations



Passenger Information Systems (PIMS) Testing System (5/31 – 7/3)

Replacing old system reaching end of life

- **Why this is necessary:** Replace and consolidate end-of-life, incompatible information systems
- **Passenger benefit:** Continued quality of service to our passengers through better information
- **What is the fix:** We are system testing for reliability before full transition
- **What is the expected service impact:** Passengers may experience information that is inaccurate during testing. Real-time info may be down from 6/6 – 6/23.



CVS Overhaul Switch Replacement

Work planned monthly starting 6/5

Replace cascode voltage switches reaching end of life (in trackway)

- **Why this is necessary:** Improving switch performance/reliability
- **Passenger benefit:** Service reliability
- **What is the expected service impact:** Single tracking from 10pm to end of service. NB platforms at Beacon Hill and Mt. Baker stations closed. 15-minute headways system wide.



Sounder: Puyallup Station Bulb-out Removal

Work planned on 6/6 – 7/3 at Puyallup Sounder Station

Removing station platform bus bulb-out

- **Why this is necessary:** Bulb out causing impedance to optimal bus flow
- **Passenger benefit:** Improved bus service
- **What is the expected service impact:**
Temporary construction fencing on platform, and surface parking will be partially closed. ST and PT bus stops will be temporarily relocated.



Q3 Shared Closure Considerations

	Project Type	Locations	Passenger Benefits
1	Damaged Rail Repair	Intl Dist. - Pioneer Square	Safety, Reliability, Removes slow order
2	Royal Brougham At-Grade Crossing Repair	Stadium - Intl Dist.	Safety, Reliability, Removes slow order
3	Othello & Rainier Beach Platform Repair	Rainier Beach - Othello	Safety, Reduces fall hazard
4	26kV System Assessment	Intl Dist. - Westlake	Safety, Reliability
5	Bond Box Replacement	Intl Dist. - Westlake	Fewer signal failures, better reliability
6	Rail Replacement	University St - Westlake	Smoother and safer ride
7	System Expansion Improvements	Intl Dist. - Northgate	Safety, Reliability, Service
8	SeaTac Station Platform Tile Repairs	SeaTac Station	Safety, Reduces fall hazard
	Possible Closure Grouping (South End)		
	Possible Closure Grouping (Downtown)		

Next Steps

- Finalize plans and begin communications to prepare passengers for the Q3 projects
- Continue to look for efficiencies and opportunities to consolidate the work impacts across the system (possible next shared closure in Q1 2024 @ DSTT)
- In close collaboration with PSO, develop a permanent office around the Passenger Impact Portfolio Plan to integrate this activity as a regular business function

Thank you.



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