



SafeTrack: Surge 9

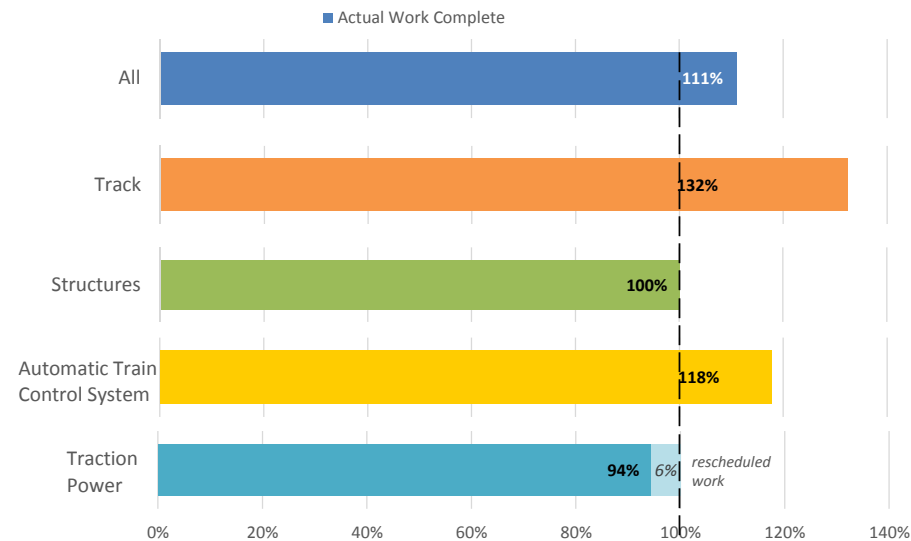
DATES:
September 15-
October 26

WORK ZONE:
West Falls Church to Vienna, Continuous Single Tracking (with Shutdowns September 24-25, October 1-2, 8-9 and 15-16)

*Final Report
Data as of 11/11/2016*

SCOPE OF WORK: Renewal of rail and power infrastructure on this portion of the Orange line, including crossties, track circuit equipment, and power cables.

Overall Progress (% Planned Work Complete)



Notes:

*Surge #9 results are preliminary and subject to quality control processes which will remain continuous throughout the duration of SafeTrack. Any remediation work that is identified will be accomplished during normal maintenance times.

Actual work complete represents the % complete across all tasks.



Surge 9 concluded on October 26, 2016 with most planned tasks completed. During the surge, priority was given to addressing potential defects and repairing or replacing critical rail infrastructure that affects train speeds and ride quality. Additional regular and preventive maintenance activities were fit in as time permitted. These maintenance activities are and will continue to be conducted on a regular basis to keep the infrastructure in a state of good repair.

The main focus of the work was to replace deteriorating crossties on both sets of tracks in this area, many of which were original to this part of the system. Approximately 5900 crossties needed to be replaced to achieve a state of good repair. Due to better planning and milder weather, crews replaced over 7,000 crossties, the most of any surge to date, which allows WMATA to get ahead of the goal of eliminating crosstie backlog. With the increased track access provided by SafeTrack, WMATA has been able to replace 24,174 ties in five months. Under normal maintenance access, this would have taken over 19 months to accomplish. Also replaced during the surge was 4,748 of rail. This is more than any surges to date. Faster-moving crossties work also enabled crews to weld 97 open joints in this area, which were not part of the original scope.

The critical tasks completed during the surge include:

- + Replaced over 7,000 crossties
- + Welded 97 joints
- + Replaced over 400 insulators
- + Repaired over 140 power cables and over 80 pigtails
- + Upgraded 48 signals to LED which are brighter and will last longer.
- + 1090 Intrusion Detection Warning System boxes were upgraded. These are an important safety feature along fence lines.
- + Inspected and repaired power and IT connections to emergency trip station boxes, ensuring that power can be quickly removed from the third rail in case of emergencies
- + Removed vegetation and trash from over 30,000 feet of the track bed, improving drainage and eliminating fire hazards.
- + Replaced missing or damaged signs and labeling.



SafeTrack: Surge 9 Detailed Report

Final Report: 11/11/2016

	Task	unit	Completed During Surge
Track	Crosstie renewal	# crossties	7,159
	Insulator replacement	# insulators	402
	Ballast renewal	# tons	675
	Tamping	# linear feet	53,026
	Third Rail maintenance	# linear feet cover board	8,490
	Joint elimination	# joints welded	97
	Rail replacement	# linear feet	4,758
Structures	Track Bed cleaning	# linear feet	30,021
Automatic Train Control System	Intrusion Detection Warning System (IDW) refurbishment and replacement	# boxes	1,090
	Track Junction Box refurbishment	# boxes	3
	Signal conversion to LED lighting	# signals	16
Traction Power System	Power Cable repair/replacement	# cables	225