



SafeTrack: Surge 5

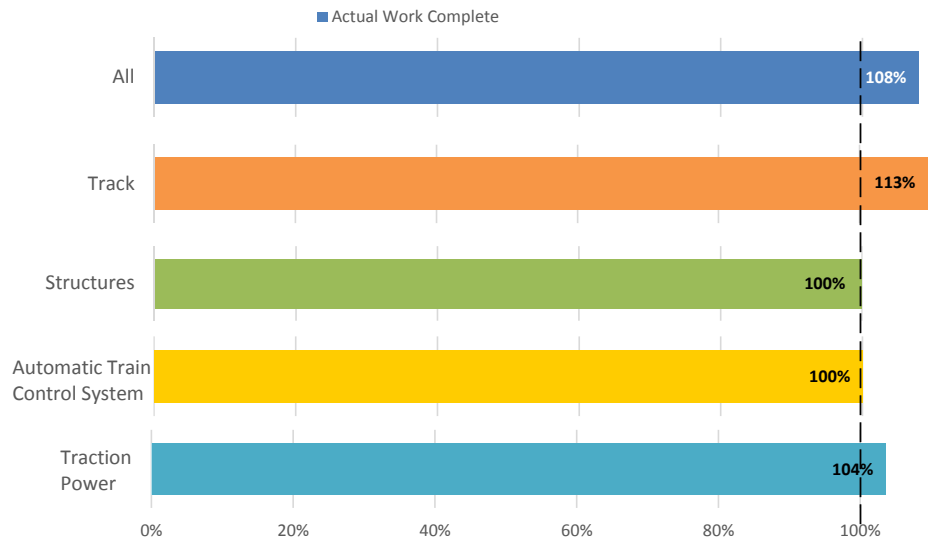
DATES:
July 20 - 31

WORK ZONE:
Ballston to East Falls Church, Continuous Single Tracking

*Final Report
Data as of 08/05/16*

SCOPE OF WORK: Renewal of rail and power infrastructure on this portion of the Orange and Silver lines, including crossties, fasteners, and power cables.

Overall Progress (% Planned Work Complete)



Notes:

*Surge #5 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 5 concluded on July 31, 2016 with all critical 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.

Lessons learned from dealing with the heat during Surge 3 were successfully applied to this effort. For example, crosstie replacement crews conducted multiple passes through an area in order to prevent the rail from kinking. Crews were able to complete all planned track work ahead of schedule, giving them time to replace 4,680 linear feet of rail and an additional 450 crossties, work which had been planned for a later date. In addition, power crews were able to repair an additional set of expansion cables

The critical tasks completed during the surge include:

- + Welded 24 joints on the rail, improving ride quality and safety
- + Replaced over 1400 crossties
- + Replaced over 4600 linear feet of rail
- + Replaced over 2300 fasteners and almost 500 studs, some of which were original components
- + Repaired over 75 power cables

Shutting down this segment of the Orange and Silver lines allowed the necessary repairs to be completed much more quickly than would otherwise be possible. Replacing over 2300 fasteners would take about 79 nights if performed only after the system closed. Replacing 4,600 linear feet of rail would take two weekends of single-tracking.

In addition, crews completed preventive maintenance activities, including inspecting and repairing lighting in tunnels and over 12,400 linear feet of fiberoptic cables.



SafeTrack: Surge 5 Detailed Report

Final Report: 8/5/2016

	Task	unit	Completed During Surge
Track	Crosstie renewal	# crossties	1,405
	Insulator replacement	# insulators	121
	Fastener renewal	# fasteners	2,369
	Stud renewal	# studs	495
	Third Rail maintenance	# linear feet cover board	820
	Rail renewal	# linear feet	4,680
	Joint elimination	# joints welded	24
Structures	Track Bed cleaning	# linear feet	5,110
Automatic Train Control System	Track Junction Box repair/replacement	# boxes	17
Traction Power System	Power Cable repair/replacement	# cables	79
	Tunnel Light repair/relamp	# units	242