



SafeTrack: Surge 11 Detailed Report

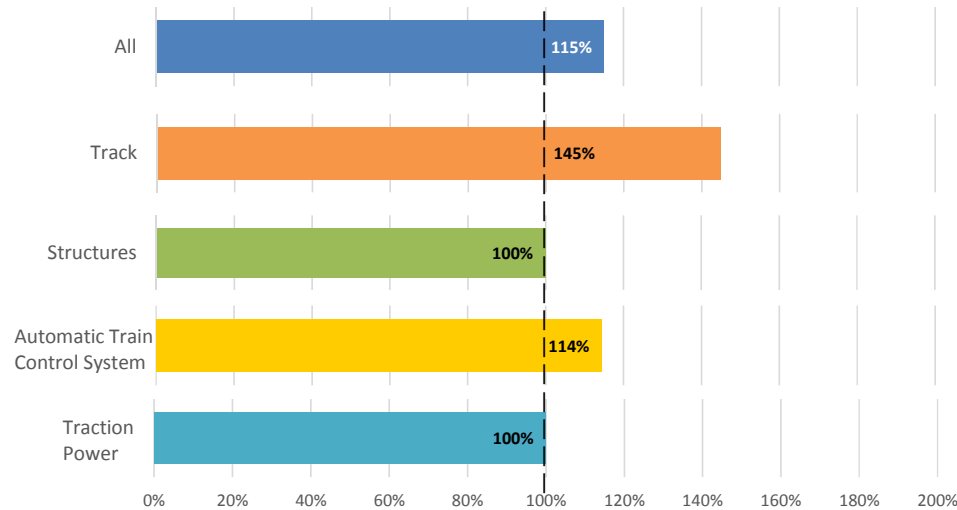
DATES:
November 28-
December 20

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

*Final Report
Data as of 12/29/2016*

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

Overall Progress (% Planned Work Complete)



Surge 11 concluded on December 20, 2016 with all planned tasks completed. During the surge, priority was given to repairing or replacing critical rail infrastructure that affects safety, train speeds and ride quality. Additional preventive maintenance activities were integrated and completed as time permitted. These maintenance activities will continue to be conducted on a regular basis to keep the infrastructure in a state of good repair.

While only 1.5 miles long, Surge 11 had an extraordinary impact on the system as it significantly reduced service across the entire Orange, Silver and Blue lines. Significant planning went into mitigating the impact to ridership. This resulted in a more complex work zone pattern, with changes to the work area planned every weekend.

The main focus of the surge was to replace deteriorating crossties and old rail. In three weeks, crews replaced almost 16,000 linear feet of rail, the most of any surge to date, 8 times more rail than the average of Surges 1-10. Previously, this would have taken over 3 months to accomplish. The ATC crew also conducted regular maintenance of intrusion detection warning (IDW) boxes.

The critical tasks completed during the surge include:

- + Replaced more than 1,900 crossties
- + Replaced more than 15,700 linear feet of rail
- + Welded more than 50 joints
- + Replaced more than 200 insulators
- + Repaired more than 8 power cables and more than 98 pigtailed
- + Upgraded 366 IDW boxes, an important safety feature along fence lines

Notes:

*Surge #11 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.





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	Task	unit	Completed During Surge
Track	Crosstie renewal	# crossties	1,937
	Insulator replacement	# insulators	213
	Ballast renewal	# tons	700
	Tamping	# linear feet	12,500
	Third Rail maintenance	# linear feet cover board	3,450
	Joint elimination	# joints welded	50
	Rail replacement	# linear feet	15,795
	Structures	Manhole Cover	# covers
Automatic Train Control System	Intrusion Detection Warning System (IDW) refurbishment and replacement	# boxes	366
Traction Power System	Power Cable repair/replacement	# cables	106