

FMCB Commuter Rail Update

February 26, 2018

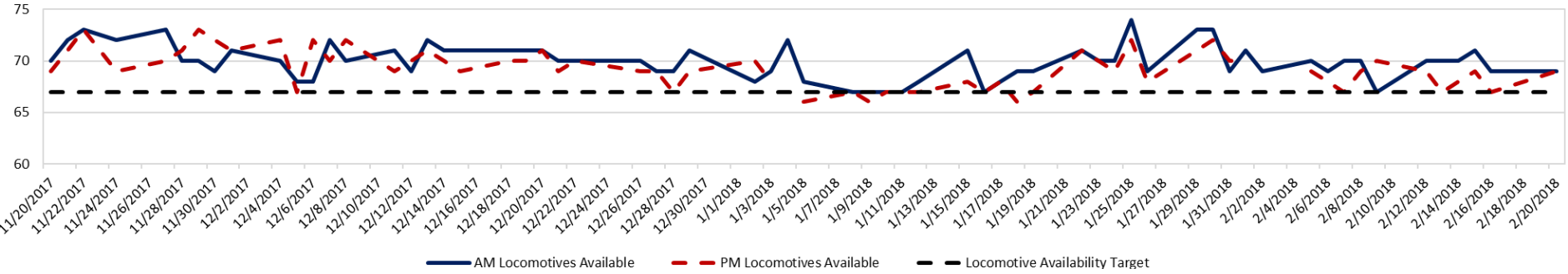




Equipment Availability

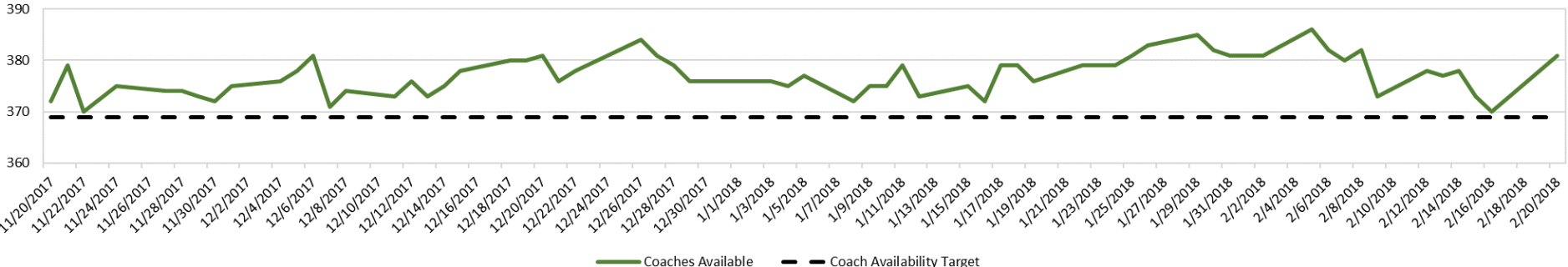
Target: 67 Locomotives Available

Locomotive Availability (last 12 weeks)



Target: 369 Coaches Available

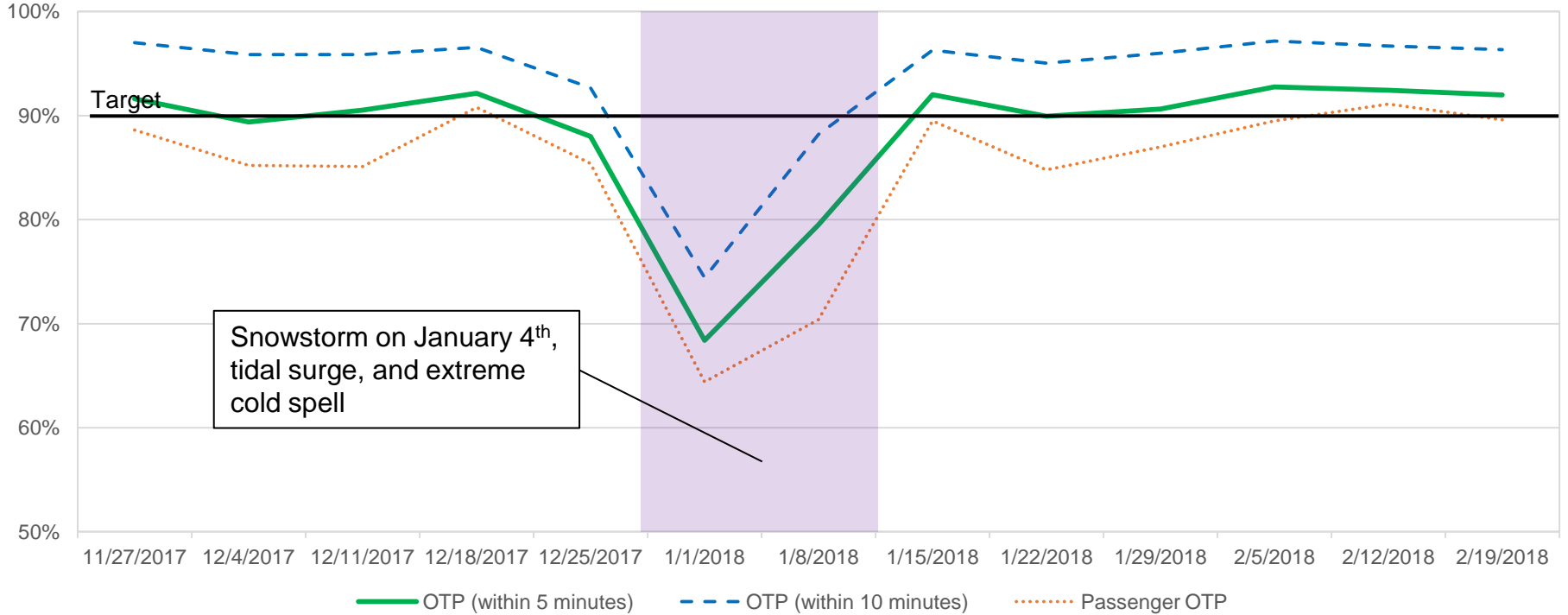
Coach Availability (last 12 weeks)





On Time Performance

On Time Performance (OTP) by Week





OTP Within 5 Minutes

	February 2017	March 2017	April 2017	May 2017	June 2017	July 2017	August 2017	September 2017	October 2017	November 2017	December 2017	January 2018	Trailing Year Average
Fairmount	97.2%	96.4%	97.6%	95.8%	97.3%	98.3%	97.3%	97.5%	98.0%	96.6%	97.9%	92.9%	96.9%
Fitchburg	75.0%	80.9%	88.1%	91.1%	85.7%	88.9%	89.7%	91.3%	79.8%	70.8%	84.6%	75.9%	83.5%
Franklin	84.9%	89.0%	88.7%	91.0%	88.7%	88.2%	86.6%	88.6%	82.5%	85.4%	87.3%	82.5%	87.0%
Greenbush	97.7%	94.8%	93.9%	94.6%	95.0%	97.4%	95.3%	95.6%	85.3%	95.2%	95.3%	90.7%	94.2%
Haverhill	80.4%	85.1%	91.9%	90.4%	80.6%	79.0%	88.8%	81.3%	74.7%	78.3%	87.0%	82.7%	83.5%
Kingston/Plymouth	95.5%	91.7%	95.0%	94.0%	92.4%	94.7%	95.1%	95.3%	84.2%	91.8%	95.0%	88.7%	92.7%
Lowell	86.5%	90.2%	94.6%	96.8%	94.8%	95.2%	94.5%	89.1%	88.2%	85.7%	89.9%	80.1%	90.5%
Middleboro	94.7%	92.6%	90.2%	93.0%	88.7%	92.4%	91.2%	90.8%	83.2%	88.9%	91.9%	91.3%	90.7%
Needham	83.4%	92.6%	92.7%	94.7%	91.6%	94.1%	92.3%	92.0%	90.0%	91.0%	91.4%	87.6%	91.2%
Newburyport	81.0%	85.0%	90.5%	94.1%	87.1%	92.5%	87.5%	89.1%	88.5%	89.3%	88.8%	76.1%	87.5%
Providence	80.0%	87.8%	92.2%	89.6%	86.4%	89.0%	89.3%	89.2%	86.6%	87.7%	88.9%	83.0%	87.5%
Rockport	83.4%	87.7%	91.4%	94.1%	89.1%	92.6%	89.1%	83.6%	86.6%	88.5%	87.5%	76.6%	87.5%
Stoughton	78.4%	87.1%	87.6%	87.8%	87.1%	91.0%	89.1%	89.8%	84.8%	85.9%	86.9%	83.0%	86.6%
Worcester	82.8%	81.3%	74.5%	79.3%	69.1%	80.2%	82.5%	74.5%	79.4%	89.5%	93.9%	86.7%	81.1%
Grand Total	85.4%	88.3%	90.3%	91.5%	87.4%	90.3%	90.2%	88.4%	85.1%	87.2%	90.4%	83.9%	88.2%



OTP Within 10 Minutes

	February 2017	March 2017	April 2017	May 2017	June 2017	July 2017	August 2017	September 2017	October 2017	November 2017	December 2017	January 2018	Trailing Year Average
Fairmount	98.7%	98.2%	98.5%	98.2%	98.6%	98.9%	98.2%	99.0%	98.8%	98.6%	99.3%	95.1%	98.3%
Fitchburg	85.6%	90.4%	94.3%	96.9%	93.2%	94.3%	94.3%	96.4%	90.6%	85.7%	91.9%	84.1%	91.5%
Franklin	92.2%	96.1%	92.9%	96.2%	96.2%	93.9%	94.0%	95.5%	91.4%	92.4%	94.8%	89.6%	93.8%
Greenbush	99.0%	97.8%	97.2%	97.5%	97.1%	98.9%	97.6%	98.1%	95.4%	97.5%	97.6%	93.8%	97.3%
Haverhill	88.9%	92.1%	95.8%	96.0%	90.4%	90.4%	95.7%	90.0%	87.1%	88.4%	92.7%	89.1%	91.5%
Kingston/Plymouth	97.8%	95.8%	97.2%	97.6%	96.2%	97.4%	97.9%	98.8%	95.4%	96.5%	98.8%	92.5%	96.8%
Lowell	96.8%	97.0%	97.6%	99.0%	97.4%	98.7%	98.7%	97.5%	95.3%	95.4%	95.4%	90.0%	96.5%
Middleboro	96.7%	95.5%	94.4%	96.9%	95.0%	97.6%	96.8%	95.0%	96.3%	96.0%	95.4%	94.3%	95.8%
Needham	92.0%	98.5%	97.9%	98.2%	95.9%	97.2%	95.9%	96.6%	96.4%	94.6%	96.8%	93.5%	96.2%
Newburyport	91.6%	91.1%	95.1%	98.2%	93.6%	96.5%	95.5%	95.0%	95.0%	96.3%	96.2%	82.5%	93.9%
Providence	86.8%	93.2%	95.1%	94.0%	92.6%	94.0%	93.8%	95.1%	93.4%	94.5%	93.7%	89.4%	93.0%
Rockport	92.1%	92.5%	96.0%	97.2%	94.6%	96.6%	95.7%	92.4%	92.6%	94.4%	94.3%	81.5%	93.2%
Stoughton	88.6%	93.2%	95.2%	94.8%	94.4%	96.0%	95.8%	95.3%	92.9%	95.9%	94.3%	90.9%	94.0%
Worcester	92.3%	90.2%	89.2%	88.1%	84.4%	90.4%	91.3%	87.7%	90.7%	95.3%	97.3%	91.8%	90.7%
Grand Total	92.7%	94.2%	95.3%	96.1%	93.9%	95.4%	95.6%	94.9%	93.5%	94.3%	95.5%	89.8%	94.3%



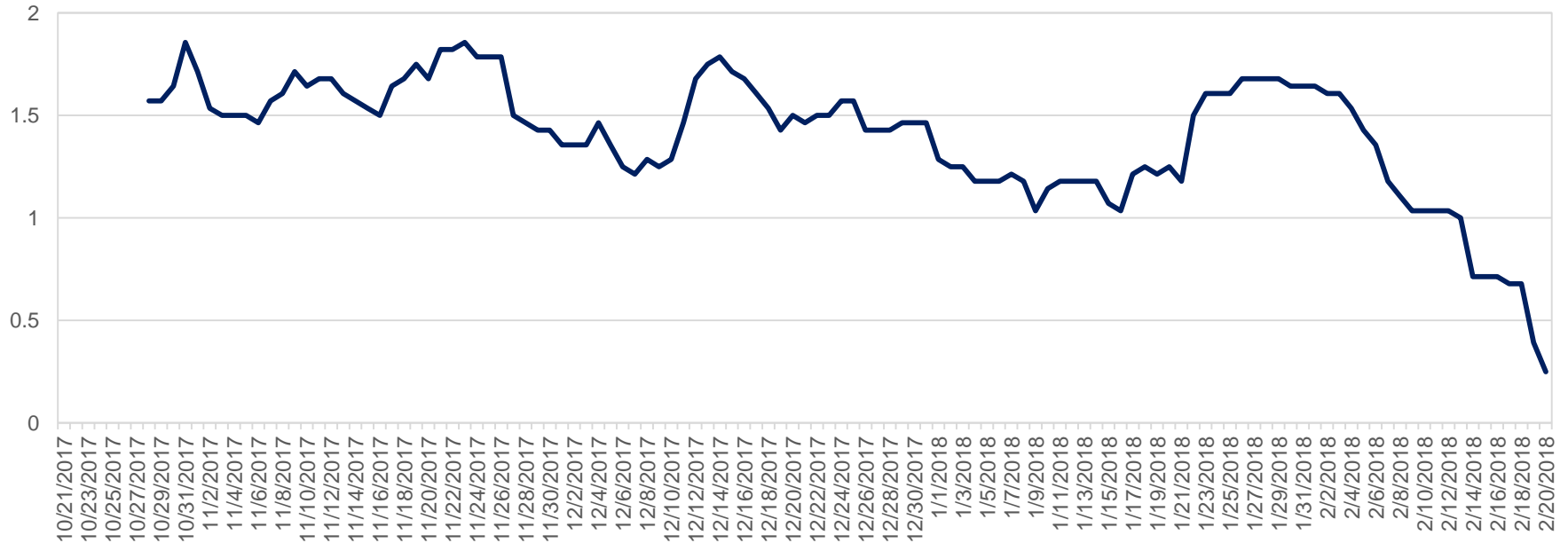
Other Actions to Address Largest OTP Issues

Item	Action	Status
Intermittent signal issue affecting the Rockport Line	<ul style="list-style-type: none">Installed new digital circuits to replace old phone circuits to improve reliability of communication from control room to signal systemSystem is monitored 24 hours a day, 365 days a year by Verizon	
Hot axle detector at Shirley causing false alarms	<ul style="list-style-type: none">Repaired detector, stopping further delays on the Fitchburg Line	
Crew Staffing	<ul style="list-style-type: none">New class of 27 conductors in service—see update below	

Crew Staffing Delays

New class of ACs has dramatically reduced delays due to insufficient staffing

Daily Insufficient Staffing Delays
(Rolling 28 day average)

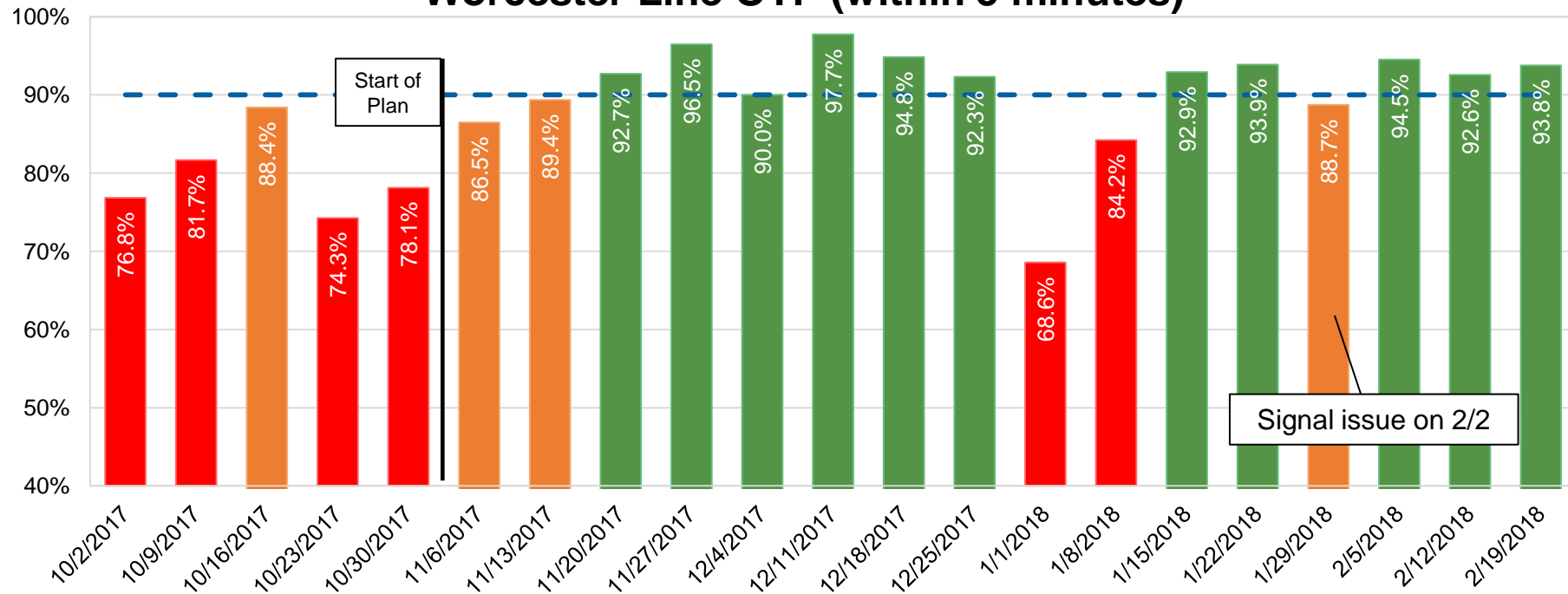




Worcester Line Plan

Line performance is showing sustainable results

Worcester Line OTP (within 5 minutes)

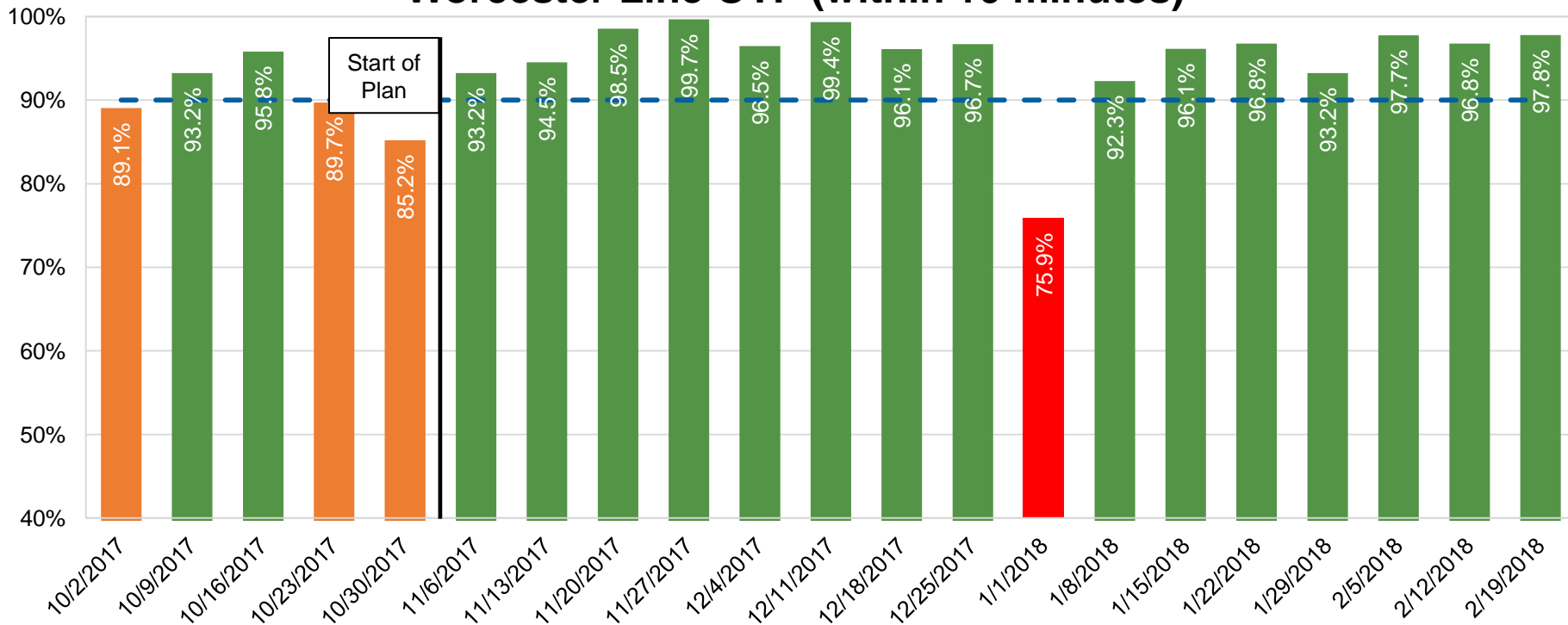




Worcester Line Plan

Line performance is showing sustainable results

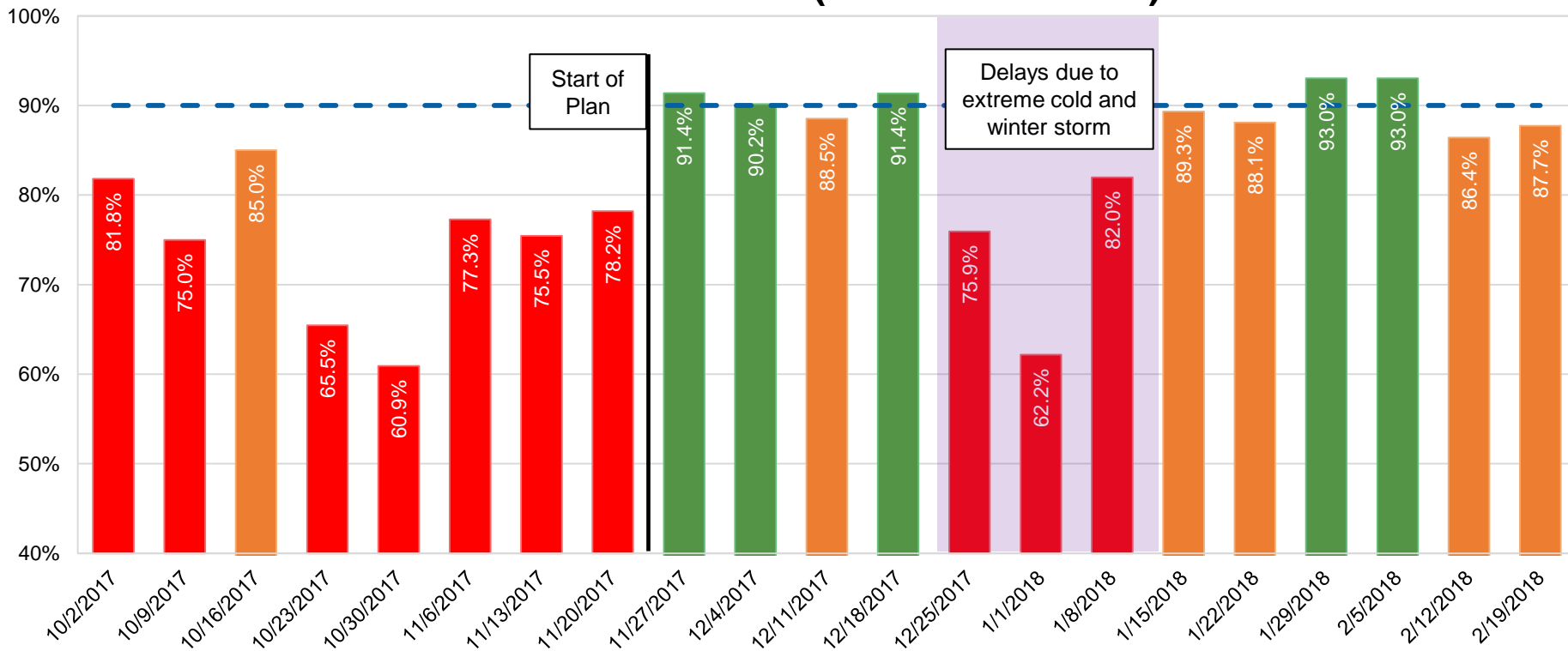
Worcester Line OTP (within 10 minutes)





Haverhill Line Plan Initial Results

Haverhill Line OTP (within 5 minutes)





Haverhill Line Plan Initial Results

Haverhill Line OTP (within 10 minutes)

