

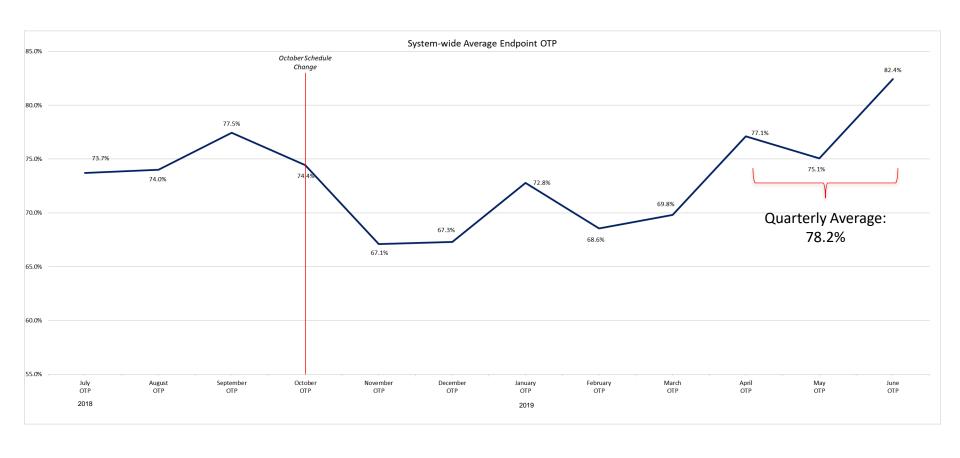
Pacific Surfliner On-Time Performance Analysis

Technical Advisory Committee September 5, 2019





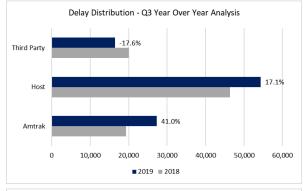
Average Endpoint On-Time Performance (OTP) - Systemwide



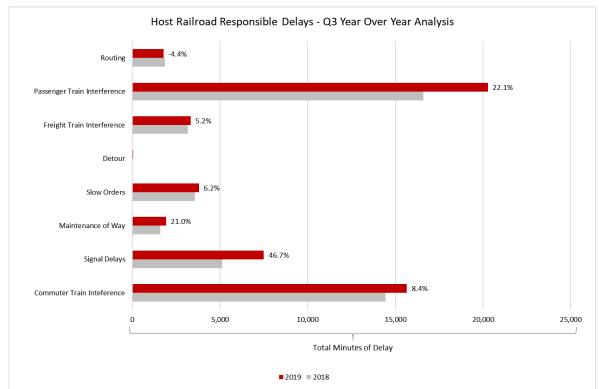
Average Endpoint OTP: Detail by Train

Train	July OTP	August OTP	September OTP	October OTP	November OTP	December OTP	January OTP	February OTP	March OTP	April OTP	May OTP	June OTP	12 Mnth Avg OTP
1565				100.0%	100.0%	81.8%	85.7%	100.0%	83.3%	100.0%	100.0%	100.0%	94.5%
561	100.0%	100.0%	100.0%	91.3%	100.0%	90.0%	86.4%	95.0%	85.7%	95.5%	90.9%	90.0%	93.7%
759	90.5%	100.0%	100.0%	100.0%	85.7%	90.0%	90.9%	80.0%	85.7%	86.4%	81.8%	75.0%	88.8%
1590				100.0%	77.8%	100.0%	85.7%	100.0%	83.3%	100.0%	44.4%	100.0%	87.9%
590	81.0%	100.0%	84.2%	85.7%	85.7%	85.0%	85.7%	77.8%	89.5%	85.7%	90.9%	90.0%	86.8%
579	73.3%	93.5%	92.9%	88.0%	65.0%	100.0%	81.8%	75.0%	95.0%	86.4%	86.4%	95.0%	86.0%
562	90.3%	90.3%	96.4%	92.6%	83.3%	87.1%	82.8%	73.1%	74.1%	82.1%	74.2%	96.7%	85.3%
768	77.4%	96.8%	96.7%	80.6%	80.0%	71.0%	80.6%	82.1%	87.1%	86.7%	93.5%	83.3%	84.7%
1564				83.3%	88.9%	88.9%	66.7%	87.5%	80.0%	75.0%	88.9%	100.0%	84.4%
1584				100.0%	77.8%	54.5%	77.8%	62.5%	100.0%	100.0%	88.9%	90.0%	83.5%
1761	100.0%	100.0%	81.8%	87.5%	100.0%	90.9%	55.6%	62.5%	80.0%	75.0%	66.7%	80.0%	81.7%
1579				83.3%	88.9%	54.5%	66.7%	87.5%	80.0%	100.0%	100.0%	70.0%	81.2%
1566	80.0%	50.0%	81.8%	75.0%	100.0%	72.7%	85.7%	66.7%	66.7%	100.0%	100.0%	90.0%	80.7%
565	96.8%	90.3%	89.3%	76.0%	66.7%	85.0%	81.8%	75.0%	66.7%	77.3%	77.3%	80.0%	80.2%
1767				66.7%	100.0%	81.8%	66.7%	62.5%	50.0%	100.0%	88.9%	90.0%	78.5%
580	77.4%	74.2%	70.0%	58.1%	60.0%	80.6%	80.6%	78.6%	87.1%	83.3%	87.1%	86.7%	77.0%
792	61.3%	80.6%	80.0%	80.6%	76.7%	77.4%	71.0%	75.0%	74.2%	80.0%	67.7%	83.3%	75.7%
591	71.0%	74.2%	63.3%	74.2%	56.7%	80.6%	83.9%	71.4%	77.4%	73.3%	83.9%	93.3%	75.3%
595	67.7%	83.9%	73.3%	83.9%	73.3%	77.4%	77.4%	64.3%	74.2%	76.7%	64.5%	80.0%	74.7%
573	70.0%	71.0%	66.7%	70.8%	42.9%	84.2%	86.4%	65.0%	76.2%	81.8%	90.9%	90.0%	74.7%
1573					77.8%	55.6%	71.4%	66.7%	50.0%	83.3%	77.8%	90.0%	71.6%
566	85.7%	87.0%	94.7%	69.6%	52.4%	36.8%	72.7%	65.0%	71.4%	59.1%	77.3%	85.0%	71.4%
584	61.3%	83.9%	85.7%	84.0%	52.4%	70.0%	72.7%	65.0%	61.9%	68.2%	72.7%	75.0%	71.1%
564	86.7%	90.3%	86.7%	62.5%	38.1%	50.0%	68.2%	60.0%	57.1%	77.3%	77.3%	85.0%	69.9%
782	83.9%	67.7%	66.7%	67.7%	56.7%	58.1%	71.0%	64.3%	77.4%	76.7%	77.4%	70.0%	69.8%
796	64.5%	71.0%	56.7%	67.7%	46.7%	67.7%	71.0%	75.0%	74.2%	80.0%	67.7%	83.3%	68.8%
583	51.6%	54.8%	66.7%	74.1%	60.0%	67.7%	72.4%	76.0%	70.4%	85.7%	64.5%	76.7%	68.4%
569				61.1%	66.7%	55.0%	59.1%	50.0%	61.9%	77.3%	63.6%	100.0%	66.1%
572	45.2%	58.1%	63.3%	68.0%	66.7%	75.0%	77.3%	60.0%	81.0%	59.1%	36.4%	35.0%	60.4%
763	71.0%	64.5%	70.0%	51.6%	20.0%	38.7%	48.4%	57.1%	58.1%	56.7%	67.7%	66.7%	55.9%
774	54.8%	48.4%	66.7%	48.4%	40.0%	35.5%	54.8%	39.3%	51.6%	66.7%	77.4%	73.3%	54.7%
767				33.3%	42.9%	60.0%	59.1%	65.0%	42.9%	40.9%	59.1%	75.0%	53.1%
1572					66.7%	45.5%	71.4%	40.0%	33.3%	50.0%			51.1%
777	64.5%	64.5%	53.3%	32.3%	30.0%	38.7%	58.1%	50.0%	61.3%	43.3%	45.2%	70.0%	50.9%
1569					55.6%	18.2%	71.4%	40.0%	16.7%	66.7%	44.4%	90.0%	50.4%
785	25.8%	22.6%	43.3%	54.8%	33.3%	16.1%	41.9%	53.6%	48.4%	40.0%	51.6%	46.7%	39.8%
System Average	73.7%	74.0%	77.5%	74.4%	67.1%	67.3%	72.8%	68.6%	69.8%	77.1%	75.1%	82.4%	

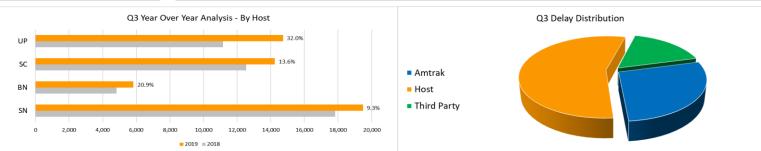
Delay Analysis: Federal Fiscal Year (FFY) 2018-19, Quarter 3 (Q3) Year over Year



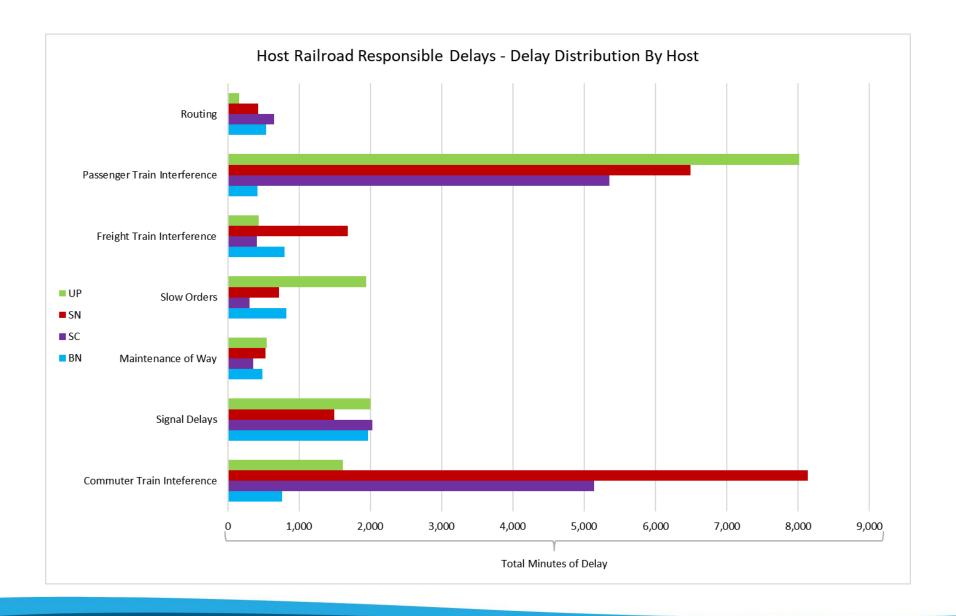




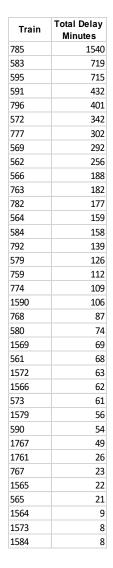
UP: Union Pacific SN: North County Transit District SC: Metrolink BN: Burlington Northern Santa Fe

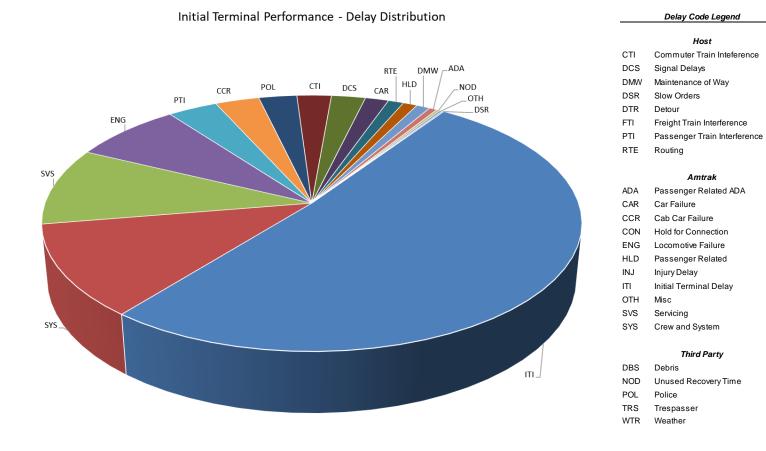


Delay Analysis: FFY Q3 – Distribution by Host



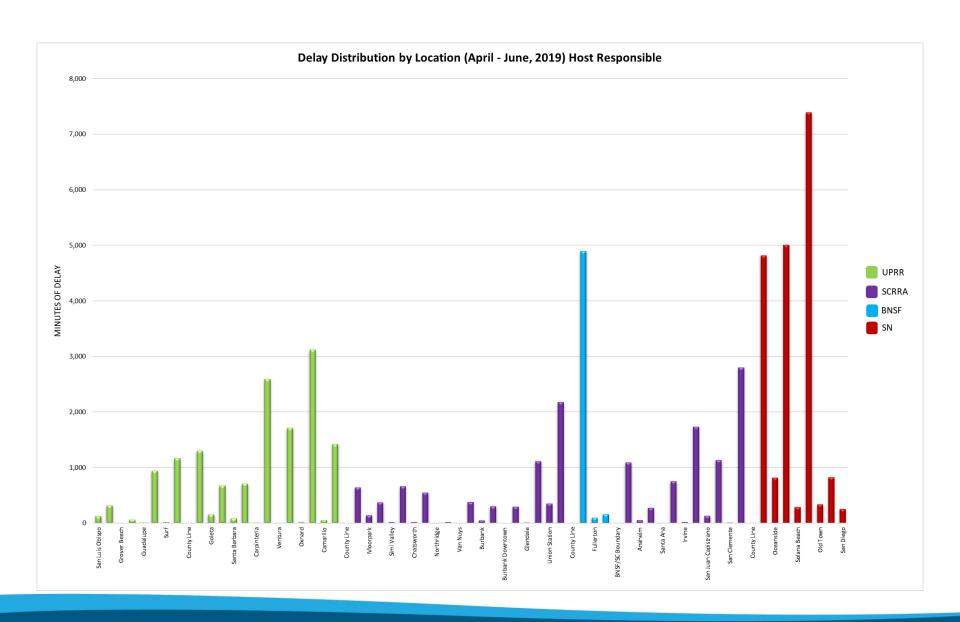
Initial Terminal Performance: FFY Q3





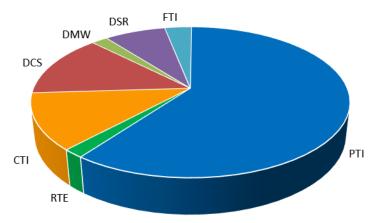
 Despite some improvement, Train 785 continues to be responsible for over 21 percent of total initial terminal performance (ITI) delay minutes

Delay Distribution – By Location

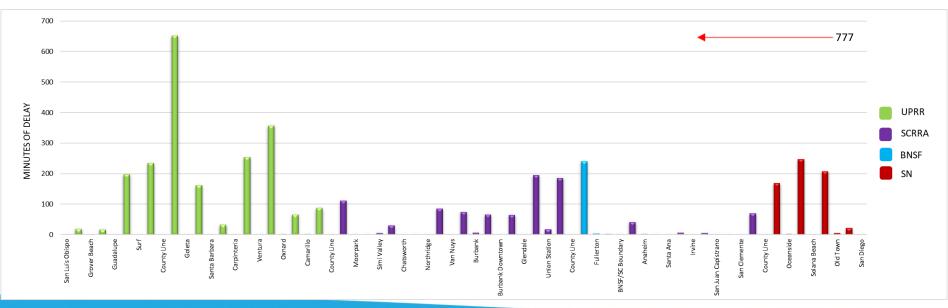


Train 777 – Delay Analysis

Train 777 - Host Delay Distribution



- For the quarter, 72.1 percent of total delay minutes (2,834) are CTI and PTI
- Majority of delays (52.8 percent) occur in UP territory
- PTI delays begin to increase at Oxnard and intensify as 777 travels north



Conclusions – Q3

- The OTP trend has shown some improvement, though still short of the 90 percent metric
- Train 785 continues to have initial terminal performance issues related to late Train 774
 - Combined these trains continue to lower system average by nearly two percent
- Train 777 experiencing significant issues with passenger train interference
- Host responsible delays for the quarter up by over 12,000 minutes vs. the prior year

Questions