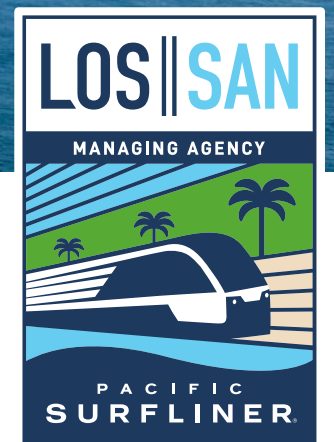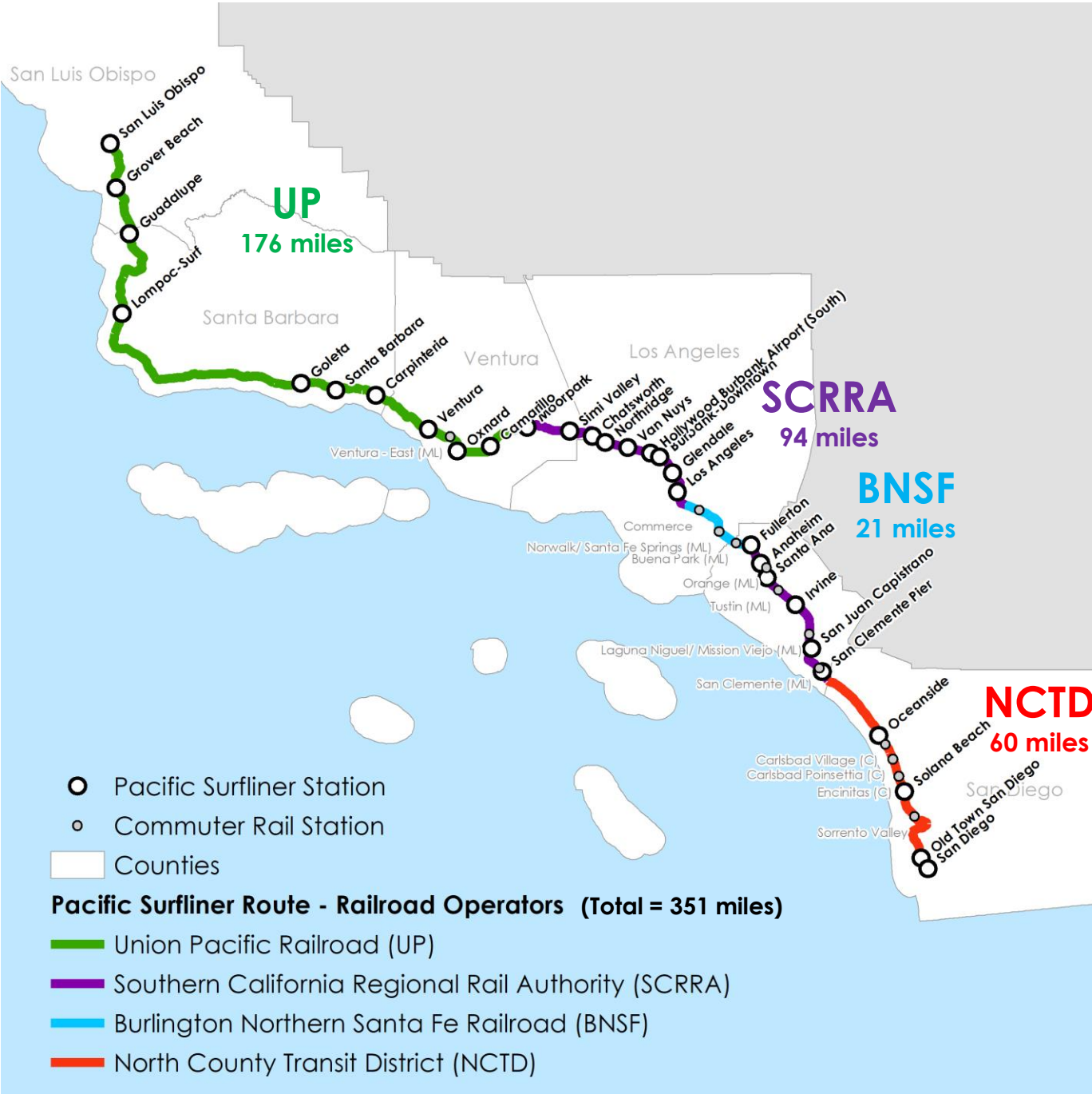# Pacific Surfliner On-Time Performance Analysis
Second Quarter –Fiscal Year 2021-22
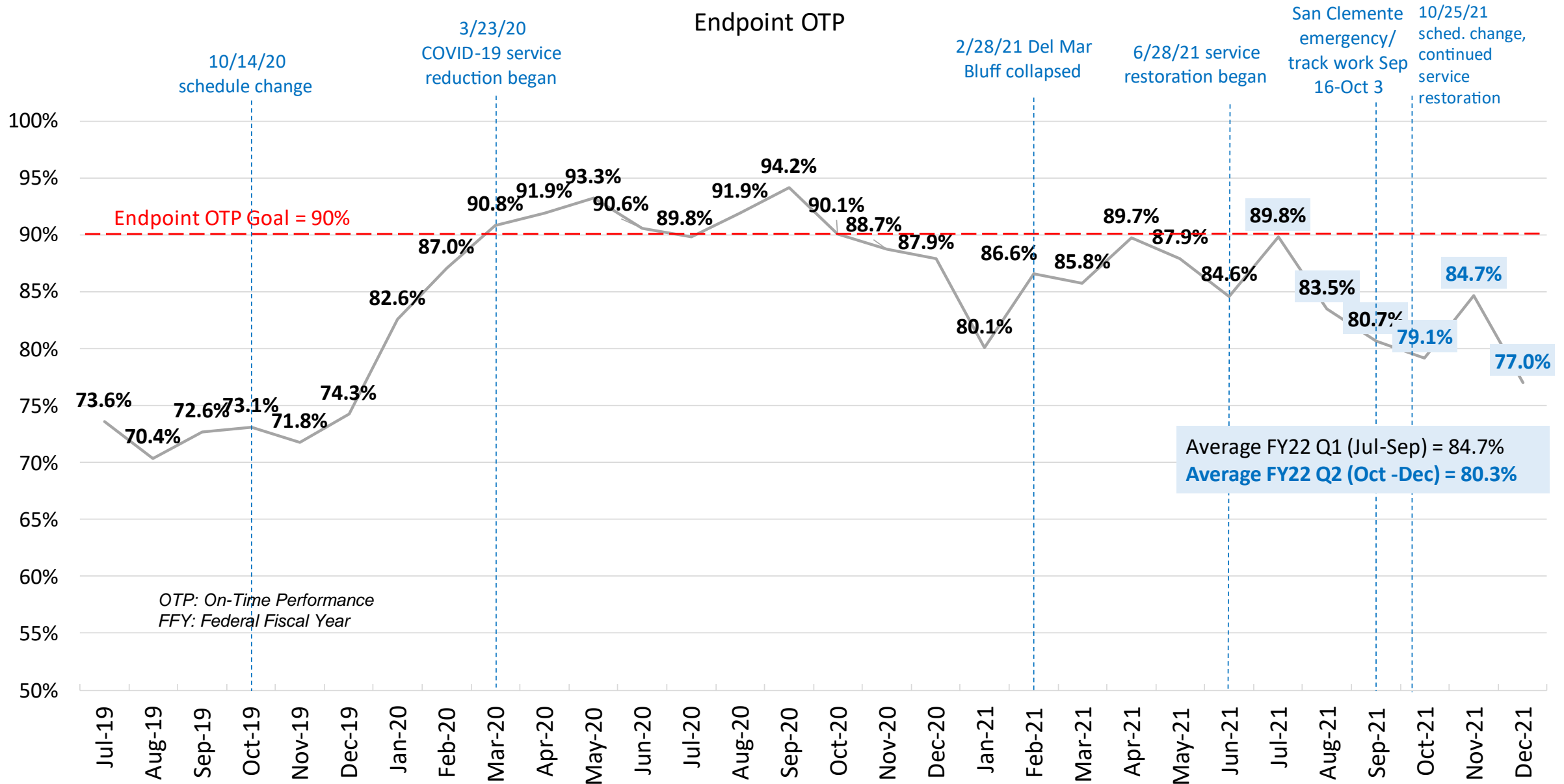
Technical Advisory Committee (TAC) Meeting June 2, 2022

Pacific Surfliner Route by Host Railroads

Pacific Surfliner Route - Railroad Operators (Total = 351 miles)

- Union Pacific Railroad (UP)
- Southern California Regional Rail Authority (SCRRA)
- Burlington Northern Santa Fe Railroad (BNSF)
- North County Transit District (NCTD)

○ Pacific Surfliner Station
∘ Commuter Rail Station
□ Counties

UP 176 miles
SCRRA 94 miles
BNSF 21 miles
NCTD 60 miles

Endpoint OTP

All Trains	FY 2022 Q1	FY 2022 Q2	% Change
Lost	266	366	37.6%
On-Time	1,455	1,489	2.3%
Operated	1,721	1,855	7.8%
Endpoint OTP	**84.5%**	**80.3%**	**-5.1%**

Total Trains Operated

Customer OTP

Customer OTP

OTP: On-Time Performance
FFY: Federal Fiscal Year

7/20/19 schedule change
10/14/19 schedule change
3/23/20 COVID-19 service reduction began
2/28/21 Del Mar Bluff collapsed
6/28/21 service restoration began
San Clemente emergency/ track work Sep 16 - Oct 3
10/25/21 sched. change, continued service restoration

Customer OTP Goal = 76%

Average FY22 Q1 (Jul-Sep) = 83.5%
Average FY22 Q2 (Oct -Dec) = 81.8%

74.3%
71.2%
73.0% 73.4%
71.4%
74.4%
84.4%
87.6% 88.2%
94.4%
92.7%
87.2%
91.0% 91.9%
93.3%
90.9%
86.9%
88.3%
85.6%
90.0%
87.7%
92.1%
87.4%
82.9%
88.6%
84.3%
77.6%
82.2%
84.9%
78.2%

Jul-19 Aug-19 Sep-19 Oct-19 Nov-19 Dec-19 Jan-20 Feb-20 Mar-20 Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Sep-21 Oct-21 Nov-21 Dec-21
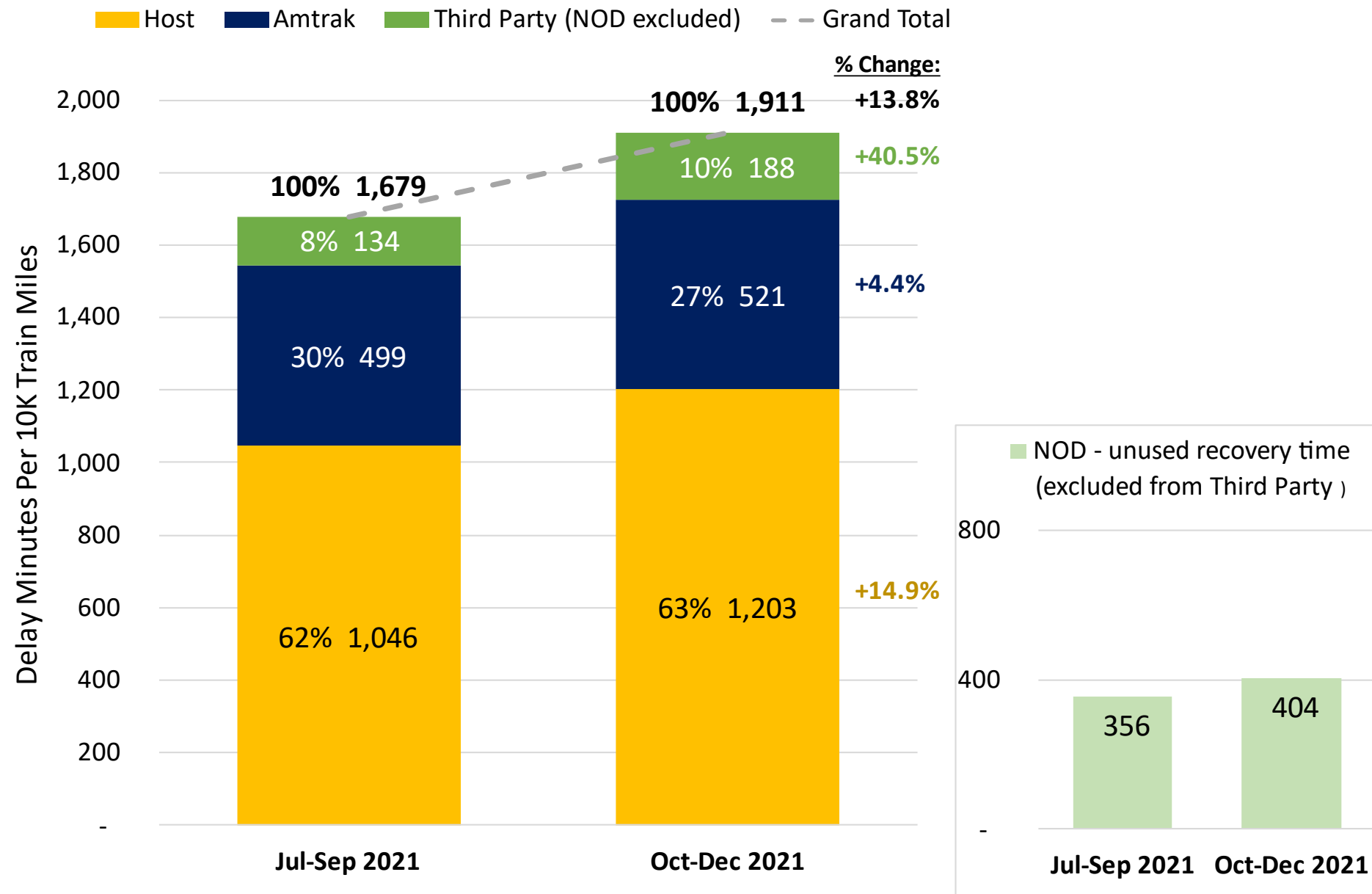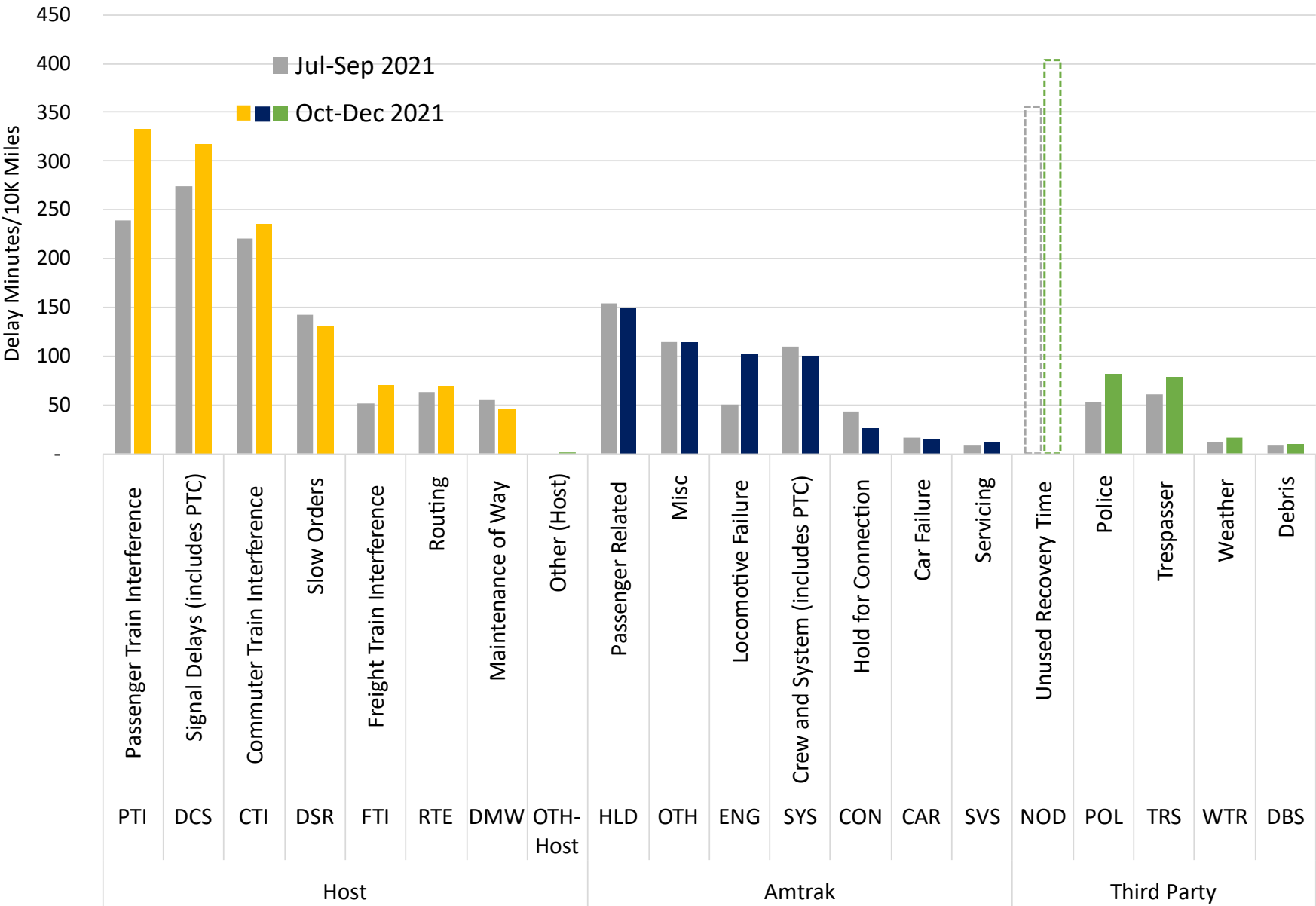
Ridership

Amtrak Pacific Surfliner Ridership
(Total Passenger Trips)

Legend:
- Ridership
- 3 per. Mov. Avg. (Ridership)

FY22 Q1 (Jul-Sep) = 359,761
FY22 Q2 (Oct-Dec) = 349,304

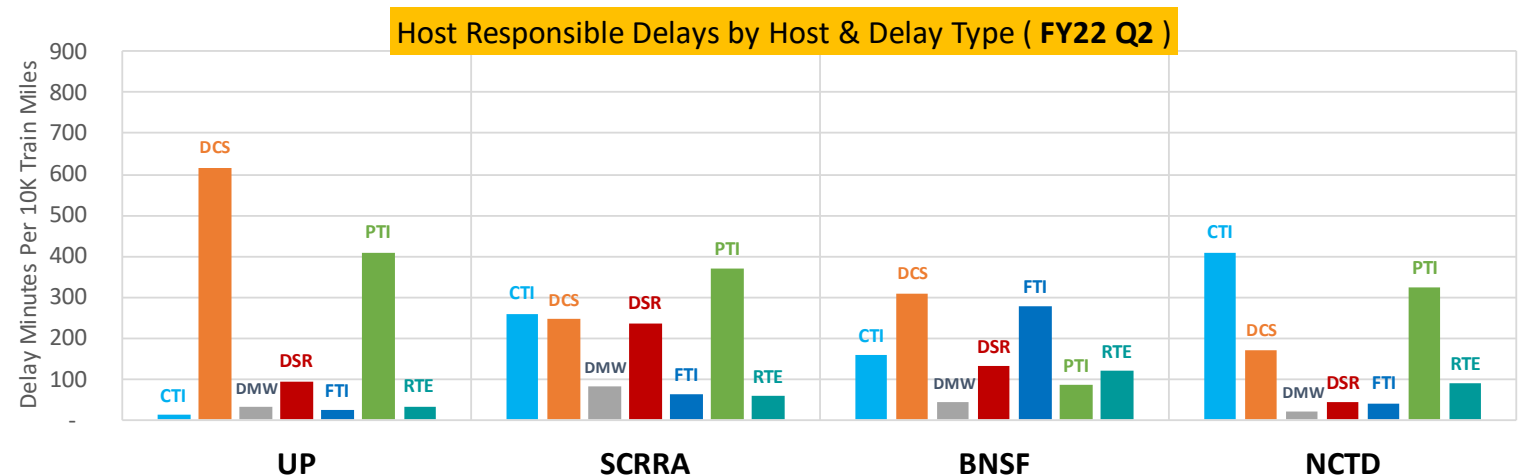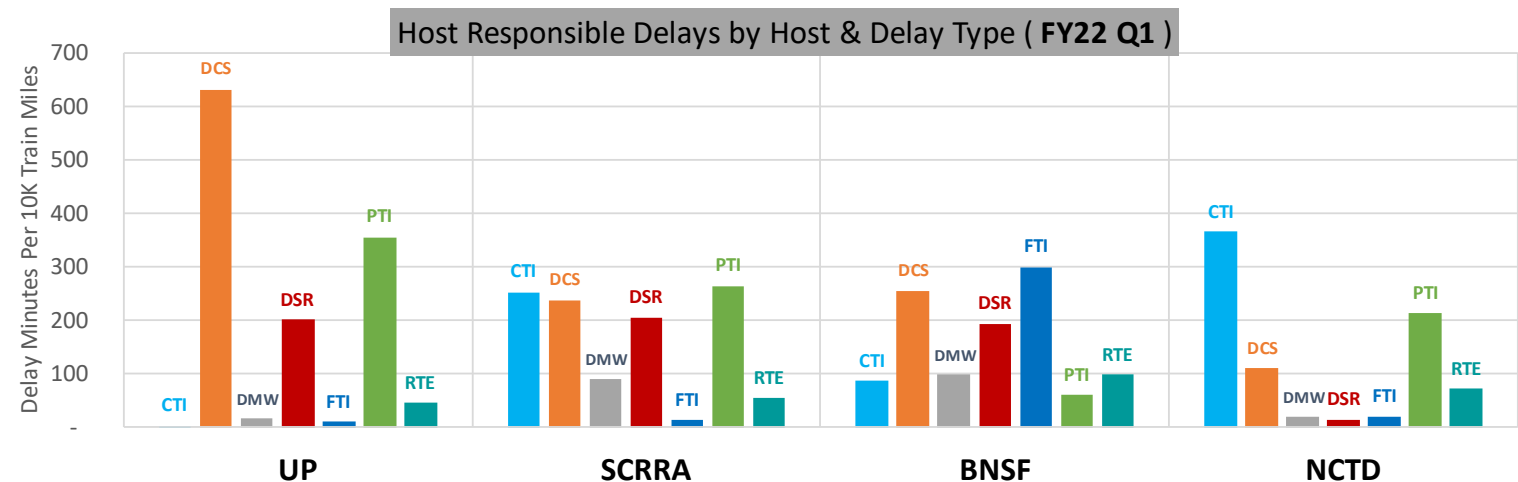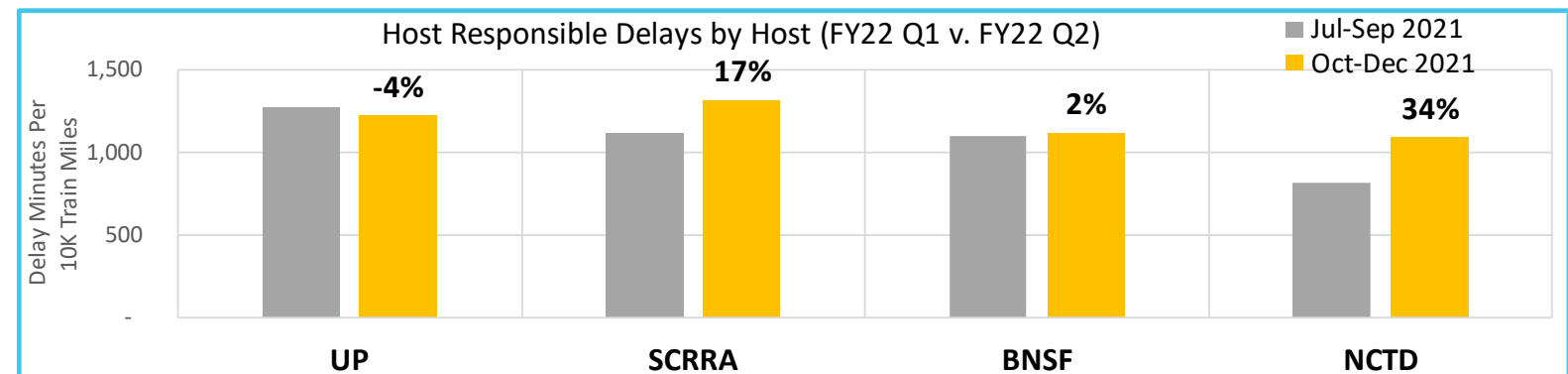| Month	Ridership
Jul-19	282,449
Aug-19	271,990
Sep-19	238,682
Oct-19	238,528
Nov-19	243,658
Dec-19	224,658
Jan-20	218,313
Feb-20	206,949
Mar-20	94,934
Apr-20	8,361
May-20	16,209
Jun-20	30,498
Jul-20	33,812
Aug-20	38,756
Sep-20	42,482
Oct-20	47,117
Nov-20	41,577
Dec-20	29,350
Jan-21	27,498
Feb-21	34,587
Mar-21	50,678
Apr-21	64,817
May-21	83,811
Jun-21	101,766
Jul-21	137,194
Aug-21	125,555
Sep-21	97,012
Oct-21	103,235
Nov-21	131,624
Dec-21	114,445

Rate of Delays by Responsible Party (Per 10K Train Miles)

Delays by Responsible Party & Delay Type (Per 10K Train Miles)
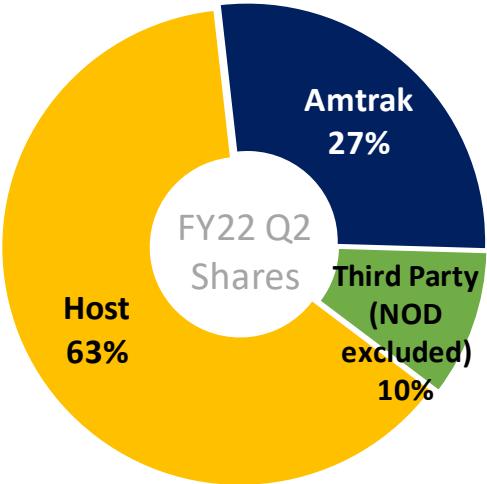
Host Responsible Delays per 10K Train Miles
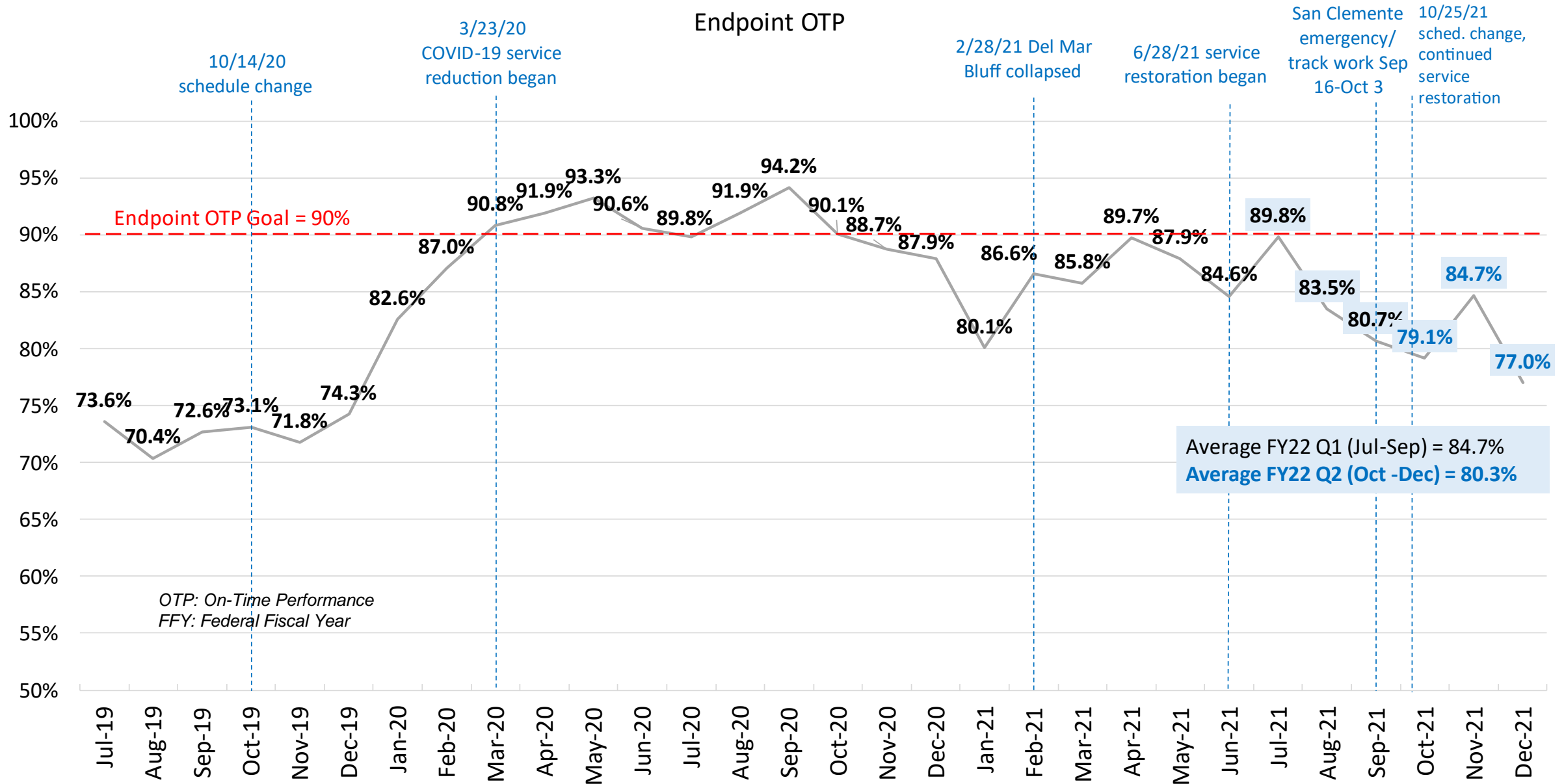

Host Responsible Delays by Host (FY22 Q1 v. FY22 Q2)
- Jul-Sep 2021
- Oct-Dec 2021

UP: -4%, SCRRA: 17%, BNSF: 2%, NCTD: 34%

Host Responsible Delays by Host & Delay Type (FY22 Q1)

Host Responsible Delays by Host & Delay Type (FY22 Q2)

Total Delay Minutes By Location

FY22 Q1 vs. FY22 Q2

Total Delay Around a Station (including delays between stations):
- FY 2022 Q1 Total
- FY 2022 Q2 Total
- UPRR
- SCRRA
- BNSF
- NCTD

Pacific Surfliner Route

N ← → S

| SLO | GVB | GUA | LPS | X3G | GTA | SBA | CPN | VEC | OXN | CML | XMR | MPK | SIM | CWT | NRG | VNC | BUR | BBK | GDL | LAX | XRJ | FUL | XFT | ANA | SNA | IRV | SNC | SNP | X98 | OSD | SOL | OLT | SAN |

San Luis Obispo, Grover Beach, Guadalupe, Lompoc-Surf, Gaviota, Goleta, Santa Barbara, Carpinteria, Ventura, Oxnard, Camarillo, CP Las Posas, Moorpark, Simi Valley, Chatsworth, Northridge (ML), Van Nuys, Hollywood Burbank Airport, Burbank Downtown, Glendale, LA Union Station, CP West Soto, Fullerton, Fullerton Jct, Anaheim, Santa Ana, Irvine, San Juan Capistrano, San Clemente Pier, Cty. Line (OC-SD), Oceanside, Solana Beach, Old Town, San Diego

Note: Unused recovery time (NOD) minutes are excluded from this chart.

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Endpoint OTP

Endpoint OTP by Train

Other Trains

Train	Origin-Destination	3-Month Avg	# Trains Operated
1790	Emergency only.	100.0%	1
1793	Emergency only.	100.0%	1
1784	Emergency only.	100.0%	2
1796	Emergency only.	100.0%	2
1763	Emergency only.	100.0%	3
1564	LAX-SAN	100.0%	8
1567	SAN-LAX	100.0%	8
590	LAX-SAN	91.7%	24
1584	LAX-SAN	87.5%	8
584	LAX-SAN	81.3%	16
579	SAN-LAX	79.2%	24
768	GTL-SAN	79.2%	24
796	GTL-SAN	79.2%	24
1572	LAX-SAN	75.0%	4
593	SAN-LAX	75.0%	24
569	SAN-LAX	73.7%	19
1768	Emergency only.	66.7%	3
1774	Emergency only.	66.7%	3
763	SAN-GTL	58.3%	24
1785	Emergency only.	50.0%	4
1777	Emergency only.	33.3%	4
1761	Emergency only.	0.0%	1

Regular Equipment Turns

562-573-580-591-594

564-777

761-794

765-784-595

567-572-583-588

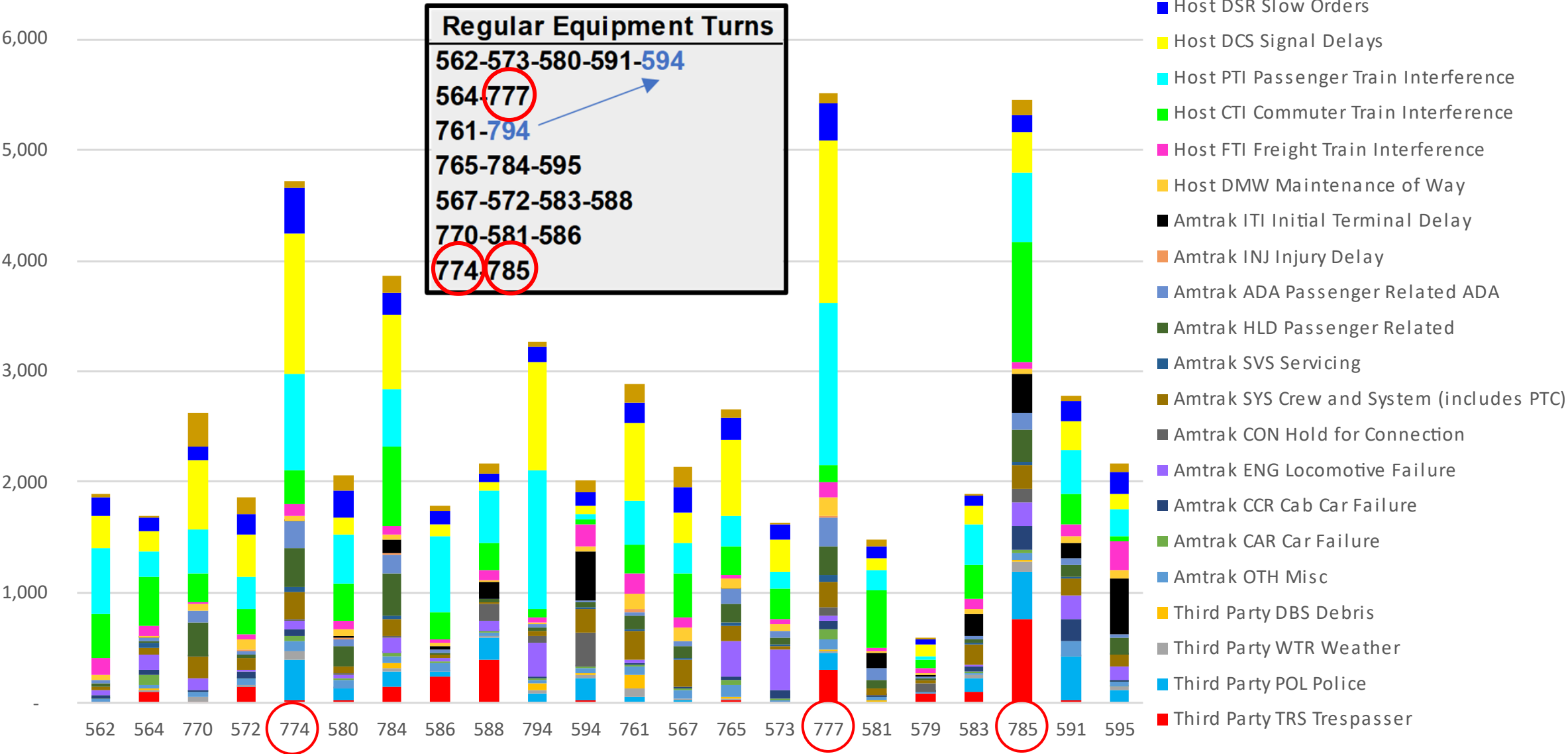770-581-586

774-785

21 Trains in October 25th Schedule

Train	Origin-Destination	Oct-21	Nov-21	Dec-21	3-Month Avg	# Trains Operated
562	LAX-SAN	87.1%	93.3%	93.3%	91.3%	91
794	SLO-LAX	85.7%	93.3%	80.6%	86.6%	68
770	GTL-SAN	100.0%	83.3%	74.2%	85.8%	68
573	SAN-LAX	85.7%	82.1%	87.1%	85.0%	66
581	SAN-LAX	85.7%	93.3%	74.2%	84.4%	68
586	LAX-SAN	85.7%	80.0%	86.7%	84.1%	67
761	SAN-SLO	71.4%	100.0%	80.6%	84.0%	68
567	SAN-LAX	78.3%	86.7%	87.1%	84.0%	84
564	LAX-SAN	69.6%	93.3%	87.1%	83.3%	84
784	GTL-SAN	85.7%	86.7%	77.4%	83.3%	68
595	SAN-LAX	82.8%	80.0%	86.7%	83.1%	89
572	LAX-SAN	81.0%	90.0%	76.7%	82.5%	81
583	SAN-LAX	84.0%	93.3%	69.0%	82.1%	84
580	LAX-SAN	90.3%	80.0%	67.7%	79.4%	92
765	SAN-GTL	71.4%	73.3%	90.3%	78.4%	68
774	SLO-SAN	90.3%	76.7%	64.5%	77.2%	92
785	SAN-GTL	64.5%	86.7%	67.7%	73.0%	92
777	SAN-SLO	71.0%	63.3%	77.4%	70.6%	92
594	LAX-SAN	57.1%	80.0%	67.7%	68.3%	68
588	LAX-SAN	28.6%	86.7%	73.3%	62.9%	67
591	SAN-LAX	57.1%	75.9%	54.8%	62.6%	67
System Average		79.1%	84.7%	77.0%	**80.3%**	1,855

*Emergency service trains operated from September 20th - October 3rd.

*Schedule change with 21 trains effective October 25, 2021.
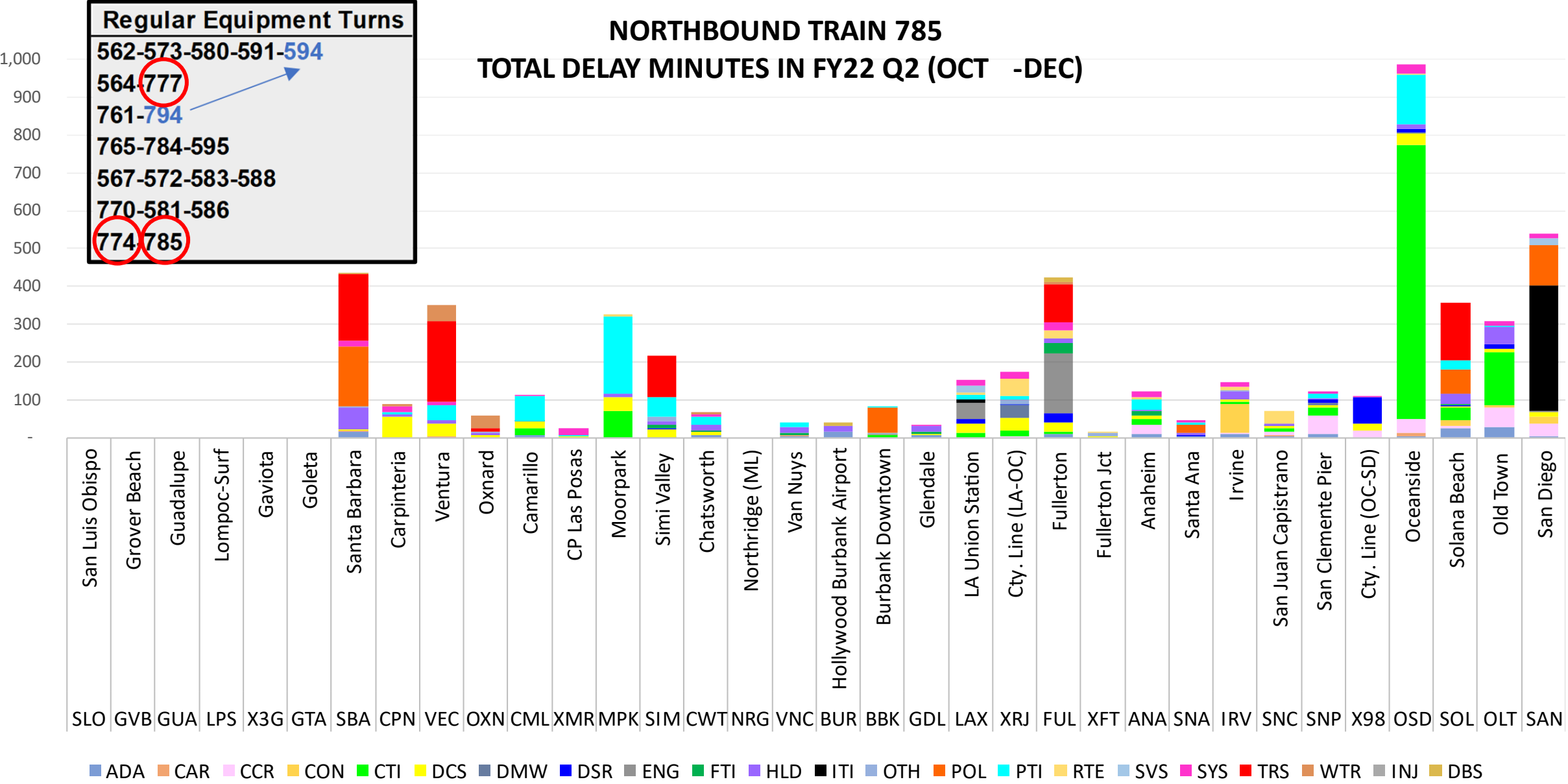
Total Minutes of Delay By Train

All Trains FFY22 Q1

Regular Equipment Turns
562-573-580-591-594
564-777
761-794
765-784-595
567-572-583-588
770-581-586
774-785

Legend:
- Host RTE Routing
- Host DSR Slow Orders
- Host DCS Signal Delays
- Host PTI Passenger Train Interference
- Host CTI Commuter Train Interference
- Host FTI Freight Train Interference
- Host DMW Maintenance of Way
- Amtrak ITI Initial Terminal Delay
- Amtrak INJ Injury Delay
- Amtrak ADA Passenger Related ADA
- Amtrak HLD Passenger Related
- Amtrak SVS Servicing
- Amtrak SYS Crew and System (includes PTC)
- Amtrak CON Hold for Connection
- Amtrak ENG Locomotive Failure
- Amtrak CCR Cab Car Failure
- Amtrak CAR Car Failure
- Amtrak OTH Misc
- Third Party DBS Debris
- Third Party WTR Weather
- Third Party POL Police
- Third Party TRS Trespasser
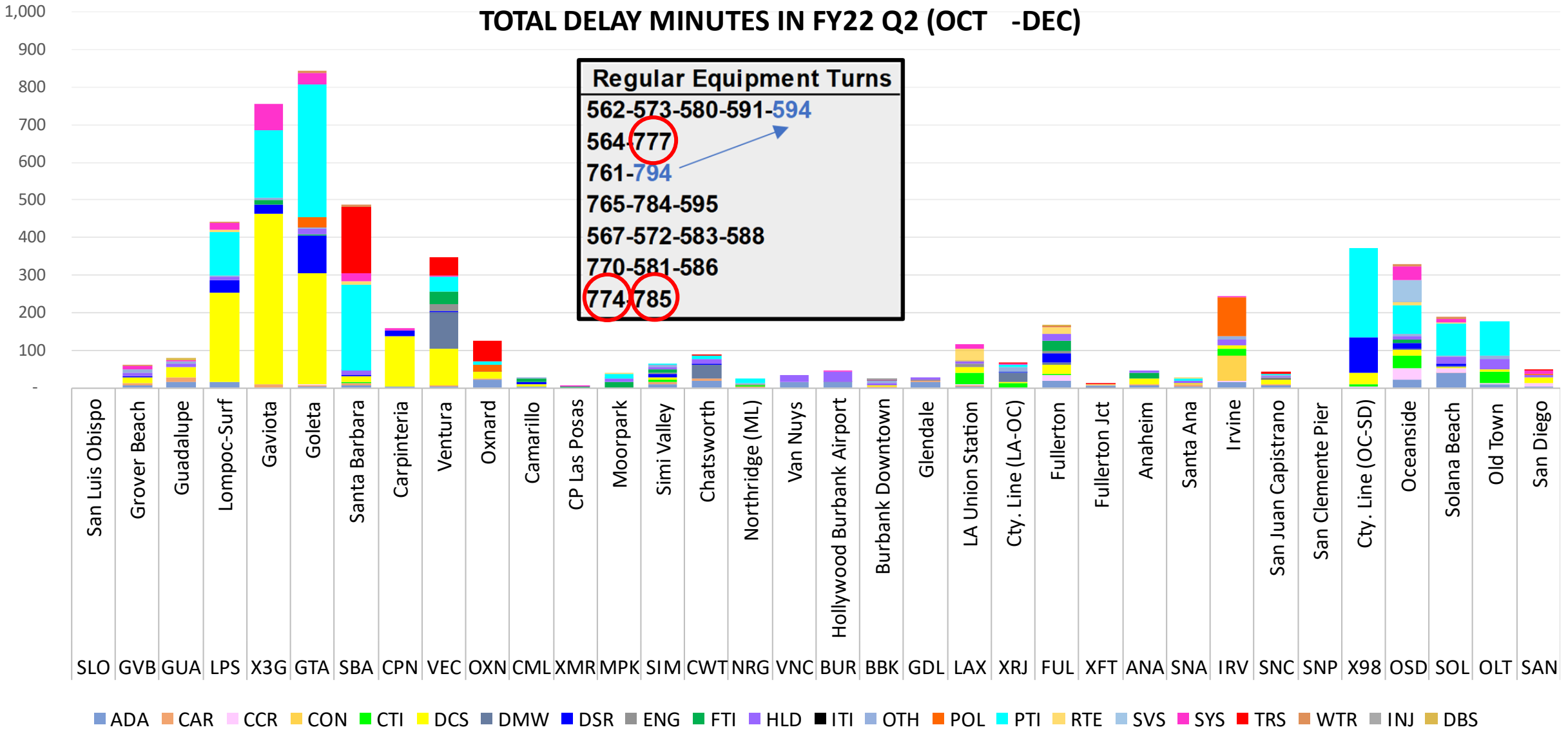
Total Minutes of Delay: Train 774

Total Minutes of Delay: Train 785

NORTHBOUND TRAIN 777
TOTAL DELAY MINUTES IN FY22 Q2 (OCT -DEC)

Regular Equipment Turns
562-573-580-591-594
564-777
761-794
765-784-595
567-572-583-588
770-581-586
774 785

Conclusions

- Systemwide endpoint OTP averaged 80.3% in Q2, below the 90% endpoint OTP goal.

- Most delays per 10K train miles were host-related delays (63%), followed by Amtrak-related delays (27%), then third-party related delays (10%).

- Overall, total minutes of delay per 10K train miles increased by 13.8% in FY22 Q2 versus the previous quarter.

- Root causes of delays included signal delays, mechanical failures, emergency situations, and increases in passengers and trains operating along the corridor.

LOS||SAN

QUESTIONS?

LOS‖SAN