



TECHNICAL ADVISORY COMMITTEE

August 7, 2019



Central Florida Commuter Rail Commission

Technical Advisory Committee

Date: August 7, 2019
Time: 2:00 p.m.
Location: LYNX Central Station
2nd Floor Multi-Purpose Room
455 North Garland Avenue
Orlando, Florida 32801

PLEASE SILENCE CELL PHONES

I. Call to Order and Pledge of Allegiance

II. Confirmation of Quorum

III. Action Items

- a. May 9, 2019 Meeting Minutes
- b. June 6, 2019 Meeting Minutes

IV. Public Comments

Comments from the public will be heard pertaining to General Information on the agenda for this meeting. People wishing to speak must complete a "Speakers Introduction Card" at the reception desk. Each speaker is limited to two minutes.

V. Chair's Report – Ms. Olore

VI. Discussion Items

- a. Agency Update –
 - a. Presentation of information committed to at the June 6, 2019 TAC meeting.
 - b. Quiet Zone Update –
 - c. Positive Train Control Update –
 - d. Noise Assessment Phase 2 South
-



Central Florida Commuter Rail Commission Technical Advisory Committee

-
- d. Bus Connectivity
 - i. LYNX
 - ii. Votran

VIII. Committee Member Comments

IX. Next Meeting

October 9, 2019
2:00 p.m.
LYNX Central Station
455 N. Garland Ave.
2nd Floor Multi-Purpose Room

X. Adjournment

Public participation is solicited without regard to race, color, national origin, age, sex, religion, disability or family status. Persons who require accommodations under the Americans with Disabilities Act or persons who require translation services (free of charge) should contact Roger Masten, FDOT/SunRail Contracts Manager 801 SunRail Dr. Sanford, FL 32771, or by phone at 321-257-7161, or by email at roger.masten@dot.state.fl.us at least three business days prior to the event.

Technical Advisory Committee Meeting

May 9, 2019

2:00 p.m.

LYNX Central Station
Second Floor Multi-Purpose Room
455 North Garland Avenue
Orlando, Florida

Attendees

Tawny Olore, Osceola County
Claudia Korobkoff, City of Orlando
Jean Jreij, Seminole County
John Angiulli, Volusia County
Renzo Nastasi, Orange County
Shad Smith, City of Longwood
Alisha Maraviglia, City of Altamonte Springs
Alyssa Eide, City of Maitland
Keith Moore, City of Winter Park

Tomika Monterville, LYNX
Elizabeth Whitton, MetroPlan Orlando
Patricia Ruffino, FDOT
Steve Olson, FDOT
George Gault, AECOM
Rick Tonet, AECOM
Mark Calvert, Evolve Today
Andrea Ostrodka, Lochner

Minutes

Meeting was called to order by TAC Chair, Tawny Olore, at 2:05 p.m.

Pledge of Allegiance

Quorum was met

Introductions

Action Items:

Presenter: Tawny Olore

- **Adoption of Meeting Minutes:** A motion to adopt the meeting minutes from January 9, 2019 was made. The meeting minutes were adopted unanimously.

Agenda Item: Chairman's Report

Presenter: Tawny Olore

- Transition Consultant
 - The Working Group has made substantial progress working with the Consultant

Agenda Item: Transition Consultant Update

Presenter: Andrea Ostrodka

- Transition Analysis
 - Document Review
 - SunRail Organizational Structure
 - History of SunRail
 - Summary of Interlocal Agreements
 - Inventory and Documentation of Contracts and Agreements
 - Financial and Budget Reports
 - Transition Framework
 - Administrative Structure
 - Proposed Interlocal Agreements
 - Transit Provider Agreements and Coordination
 - Recommendations
 - Risk and Insurance Analysis
 - Adequacy of Operations Control Center
 - Preparation of Capital Plan
 - Review Vendor Contracts
 - Review ADA compliance

Agenda Item: Agency Update

Presenter: Patricia Ruffino

- Celebration of 5-Year Anniversary
 - Week-long celebration to thank Riders for supporting the system
- 2019 Marketing Objectives
 - The goal for 2019 is the increase of system-wide ridership
 - Goal of 1.5 million transactions which breaks down to a daily average of approximately 6,000 riders
 - Attract new riders from the students and faculty of UCF/Valencia downtown campus by providing an introductory special fare for faculty from 8/1/19 – 9/30/19 and for students from 8/26/19 – 9/30/19
 - Promoting Reasons to Ride
 - Partnership with LimeBike for first/last mile commute
 - An additional SB train for Orlando Magic Games
 - Served 16 games
 - Provided 200 trips
 - Received extraordinary positive feedback
 - Choo Choo to the Zoo
 - Haul of Presidents – Special Promotional

- SunRail App
 - Train statistics
 - Calendar of events scheduled around Stations on the corridor
 - Highlight activities and business centers around the Stations
 - Promoting Connections
 - Kissimmee Connector serving Osceola Regional Hospital
 - NeighborLink serving Orlando Health Emergency Room near Tupperware Station
 - Signage at Sanford Station promoting Trolley and times
 - Signage at Sand Lake Station promoting Train to Plane
 - Promoting SunCards
 - Registration to promotion accessibility
 - Ambassador resources for engaging with customer
- Safety Enhancement
 - Signage “Do Not Stop on Tracks” installed
 - County Road 427
 - State Road 434
 - Horatio
 - Lancaster
 - Landstreet
 - Carroll
- Ridership
 - Ridership increase of 82% due in part to the Southern Expansion but also as a result of the modifications to the schedule, reducing the gaps, and improvements with connectivity
 - Boarding by Stations
 - Fiscal Year-to-Date July 2018 through April 2019
 - LYNX and Church Street Stations continue to be strong in the core
 - Average Daily Ridership
 - March was strong due to Spring Break and Winter Park Art Festival
 - On Board Statistics
 - On-board daily average shows an increase of ADA riders to 25 per month – an increase with the increase in overall ridership
 - Bicycle boardings are up and averaging 236 per month
 - Boarding & Alightings
 - The AM and PM Peak are presented from post free ridership promotion, August 20 2018 through April 30, 2019
 - The Off-Peak indicates an up-tick at Winter Park from leisure riders
 - On-Time Performance
 - OTP data is provided from inception in 2014 through the recent period ending April 2019
 - Indicates the reliability of the system
 - The average for the month of April exceeded the goal of greater than or equal to 95%
 - Call-Center Statistics
 - The Call Center receives a high number of calls that are general in nature or inquiries regarding fares and train schedule
 - The total calls for Fiscal Year-to-Date are 23,047
 - Complaints remain less than 1% of all calls
 - Text service has aided in keeping the call volume down
- Budget Fiscal Year-to-Date (July 2018 – April 2019)
 - Operating Revenue
 - Farebox Revenue has not been adjusted for the seasonality of ridership accounting for some difference between Budget and Actual

<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Amtrak Usage fees collected are lower than projected and we continue to work with them ○ Operating Costs, Capital Maintenance and Consultant Support <ul style="list-style-type: none"> ▪ The amount shown for the Annual Budget of Capital Maintenance and Consultant Support is the amount of funding available through the “Work Program” and not necessarily the amount of anticipated expenditures. Unused funds will be rolled forward to the next Fiscal Year and available if needed • Fiscal Year 2020 Preliminary Budget <ul style="list-style-type: none"> ○ Operating Revenue <ul style="list-style-type: none"> ▪ In previous years, the budget for farebox revenue was developed based on the original Finance Plan which projected an annual fare increase; however, fares have not been increased as projected. For FY20, current fare revenue and ridership was determined and increased by projected increase in both. A Fare increase was not incorporated in the FY20 budget. <ul style="list-style-type: none"> ➤ Elizabeth Whitton, MetroPlan Orlando, asked for clarification from the Chair on her statement that the Interlocal Operating Agreement requires the TAC to review the budget and approve it before it goes before the CFCRC. ➤ The Chair read from the IOA: Annual operating budget shall be developed for the Commuter Rail System. During the FDOT Funding Period, each annual operating budget shall be submitted first to the TAC for review and then to the Governing Board for comment prior to approval by FDOT. ➤ The Chair noted that she would provide an update to the Governing Board at its meeting at the end of May to let them know it was reviewed and if the Committee had any issues or OK’s would be summarized. 	<div> Agenda Item: Quiet Zones Presenter: George Gault </div> <ul style="list-style-type: none"> • Project Update <ul style="list-style-type: none"> ○ Progress is steady ○ Signal upgrades/supplementary safety measures are in at 5 of the 6 partners with smaller quantities ○ Edgewood is 100% complete and making good progress with the FRA ○ Orange County is completed with perhaps 1 civil improvement to complete ○ Maitland and Seminole County have completed the signal work with some civil improvements that are being worked on ○ Winter Park is 100% completed with signal work with some civil improvements remain ○ City of Orlando has the largest number of grade crossings and some of the more complicated ones. There is some work left to be done but they are making good progress. ○ Kissimmee completed the signal work about a year ago. There is a crossing that requires a median to be installed which has not been completed.
<div> Agenda Item: Positive Train Control Presenter: Rick Tonet </div> <ul style="list-style-type: none"> • Project Update <ul style="list-style-type: none"> ○ FRA approved Revenue Service Demonstration (RSD) ○ RSD began runs in the Test Territory 4/22/19 ○ To-date 21 of 108 runs in PTC which are required are completed ○ After completing runs in the Test Territory, runs will begin on the remaining corridor ○ RSD in the full corridor is scheduled for completion December 2019 	

Agenda Item: LYNX Bus Connectivity**Presenter: Tomika Monterville**

- Transitioning of Automatic Vehicle Locator (AVL) and Computer Aided Dispatch (CAD) system from Clever to Trapeze
- Automatic Passenger Counts (APC) were not installed on all buses and a full system RFP will be taken to the Board for approval to equip the full fleet

Agenda Item: Interlocal Operating Agreement Requirements**Presenter: Tawny Olore**

- The Chair noted the meeting time has run over and many members had to leave; therefore, the Committee no longer has a quorum
- Discussion of the IOA requirements
 - Compared documents provided by FDOT to those provided by South Florid Regional Transportation Authority to their Board
 - As the CFCRC marches forward to the eventual take-over of the system, the TAC needs to be well versed in the maintenance of the system, operations, and financial wherewithal so that in turn the TAC can make recommendations to the Commission
- Due to the amount of time left for this meeting and the lack of a quorum, the Chair proposed a meeting in June to review and discuss the items on the list prepared by the Chair and distributed to the members which outlined provisions in the IOA and determine what documents the Committee wants to be provided for review
 - Mr. Renzo Nastasi, Orange County, suggested that having a meeting in June to review and discuss the list would be worthwhile

Committee Member Comments:

- *Tawny Olore, Osceola County, asked staff to clarify if the calculation of On-Time-Performance that is reported and if accidents or incidents on the corridor are factored in.*
- *Claudia Korobkoff, City of Orlando, noted that on-board announcements are not correct and difficult to understand.*
- *Shad Smith, City of Longwood, asked staff to review the signal cycle at SR 434 and SR 427.*
 - *Mr. Gault provided that staff would review the traffic pattern at the intersection.*

Meeting adjourned: 3:49 p.m.**Next meeting:** Scheduled for Wednesday, August 7, 2019 at 2:00 p.m., LYNX Central Station, Second Floor Open Space, 455 N. Garland Avenue, Orlando



TECHNICAL ADVISORY COMMITTEE

August 7, 2019

TITLE VI

This meeting, project, or study is being conducted without regard to race, color, national origin, age, sex, religion, disability or family status. Persons wishing to express their concerns relative to FDOT compliance with Title VI may do so by contacting:

ROGER MASTEN

SunRail Title VI Coordinator
801 SunRail Drive
Sanford, Florida 32771
Roger.Masten@dot.state.fl.us

JACQUELINE PARAMORE

State Title VI Coordinator
605 Suwannee Street, Mail Station 65
Tallahassee, Florida 32399-0450

ADOPT MEETING MINUTES

May 9, 2019



PUBLIC COMMENTS



CHAIR'S REPORT

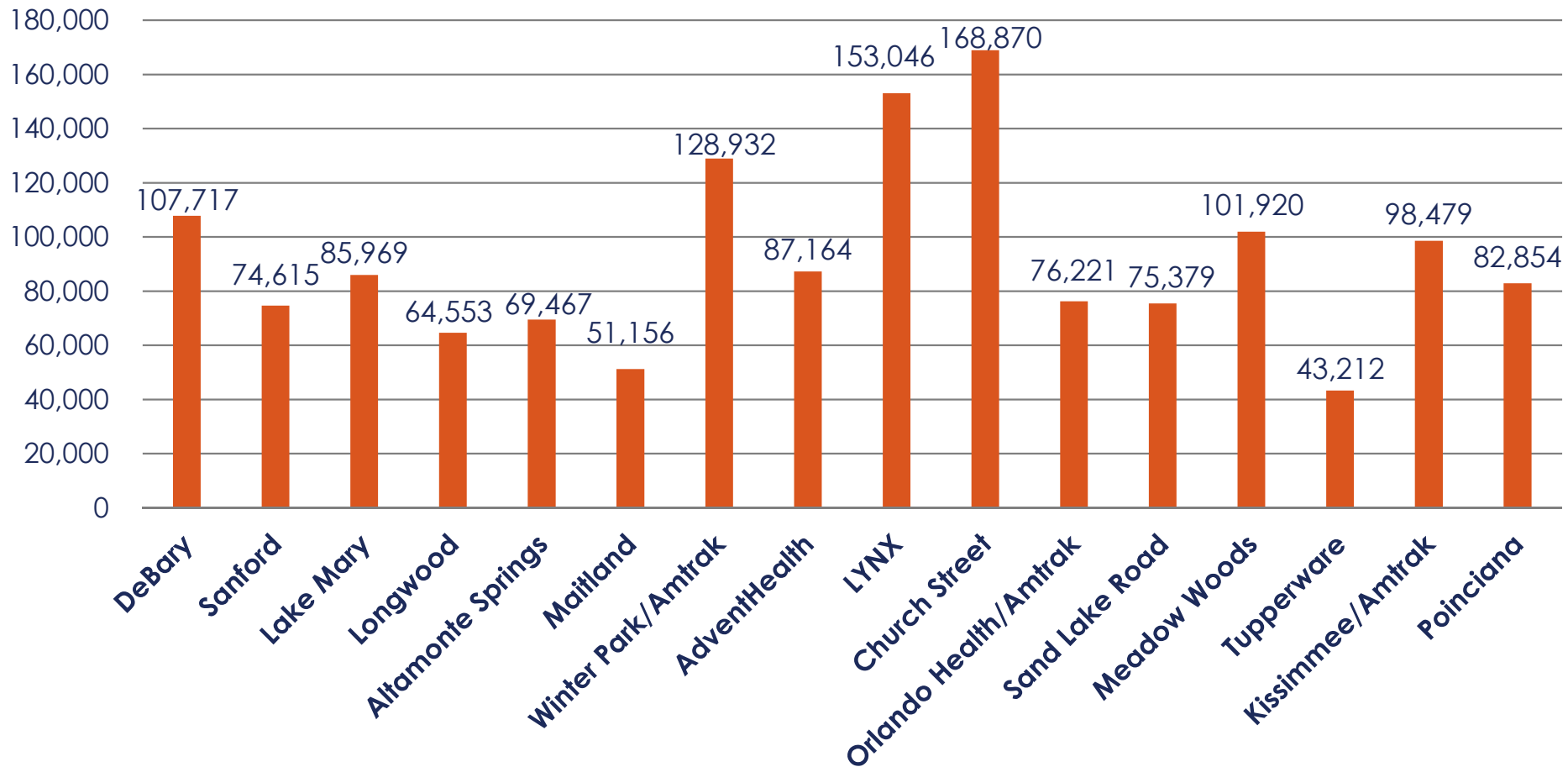
Ms. Tawny Olore



AGENCY UPDATE

Ms. Nicola Liquori

BOARDINGS BY STATION



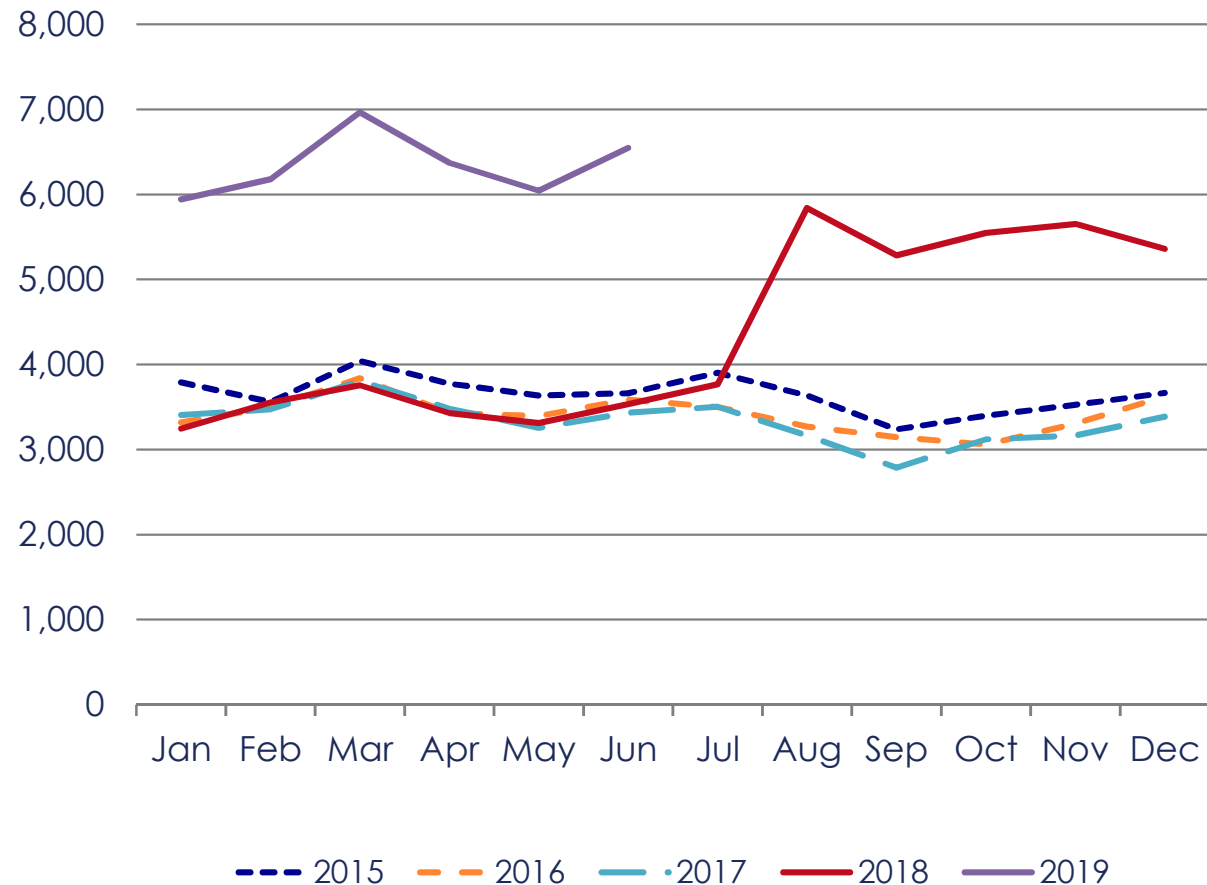
Ridership July through June 2019

AVERAGE DAILY RIDERSHIP

2019 AVERAGE DAILY RIDERSHIP BY MONTH

MAY 6,045

JUN 6,546

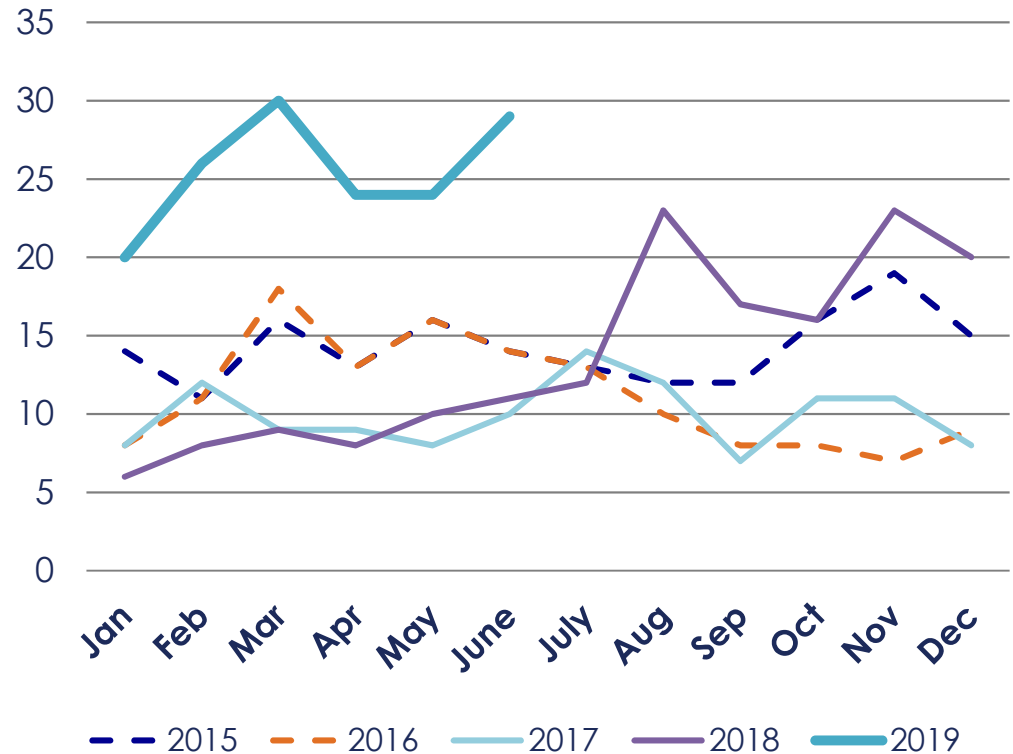


ONBOARD STATS

MAY-JUN
AVERAGE DAILY
ADA

27

RIDERS BY MONTH

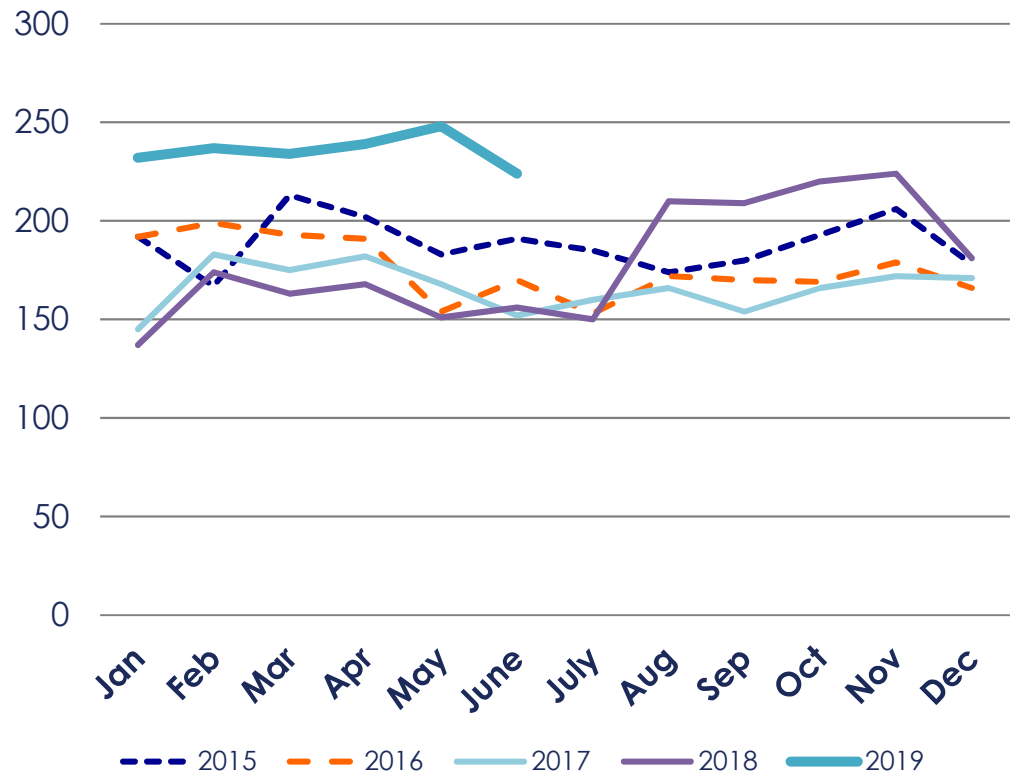


ONBOARD STATS

MAY-JUN
AVERAGE DAILY
BICYCLE

236

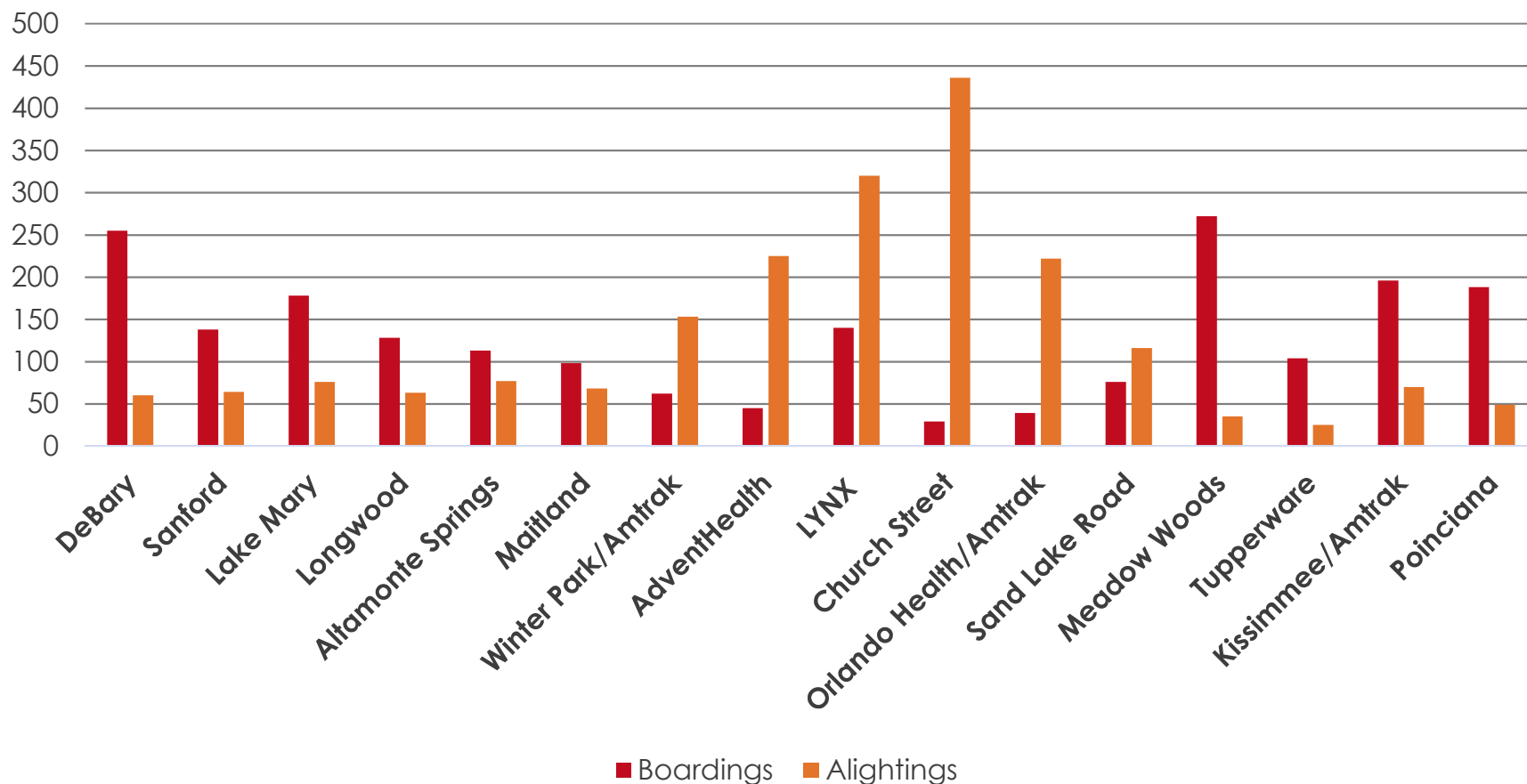
RIDERS BY MONTH



BOARDINGS & ALIGHTINGS

AM PEAK

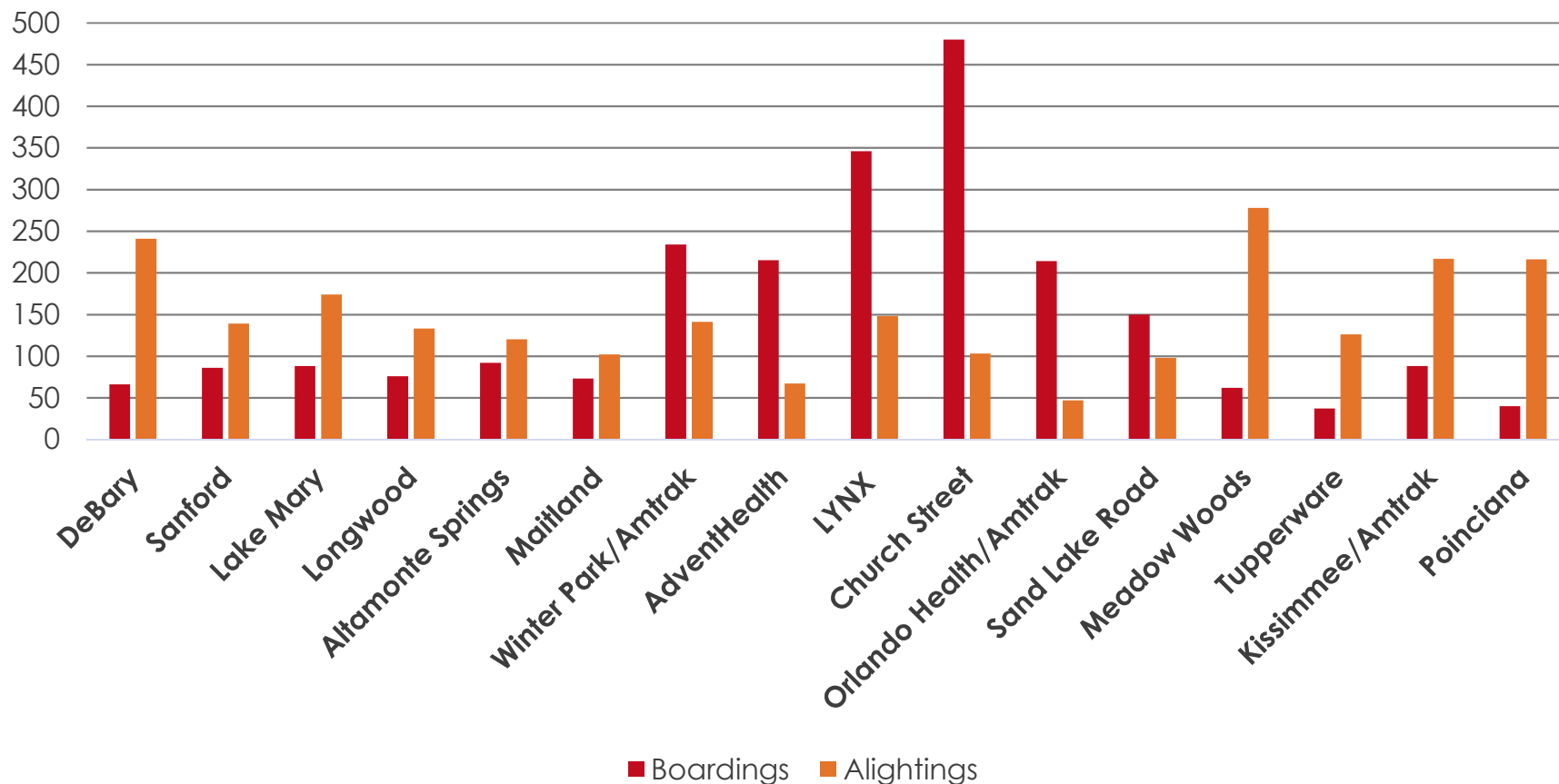
August 20, 2018 – June 30, 2019



BOARDINGS & ALIGHTINGS

PM PEAK

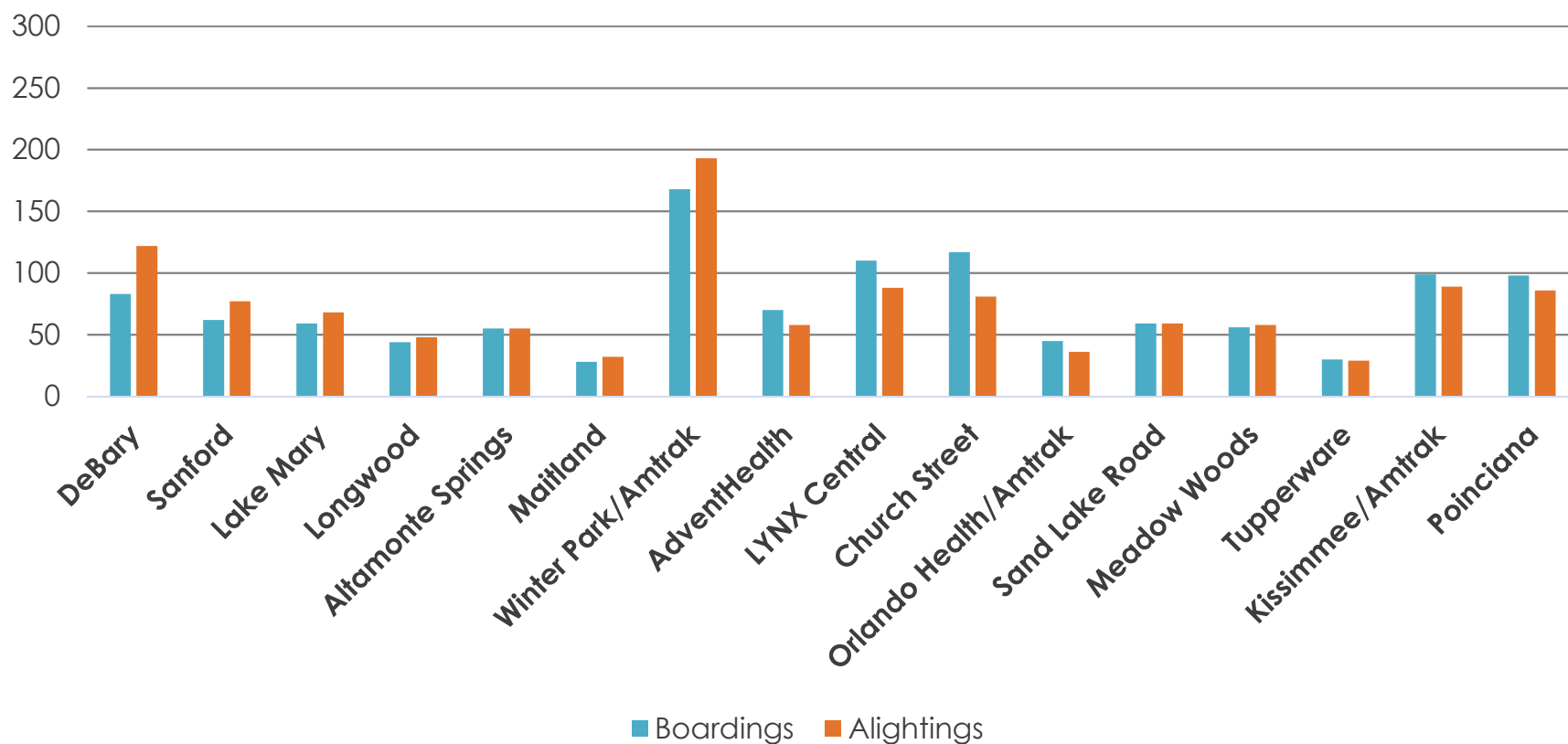
August 20, 2018 – June 30, 2019



BOARDINGS & ALIGHTINGS

OFF PEAK

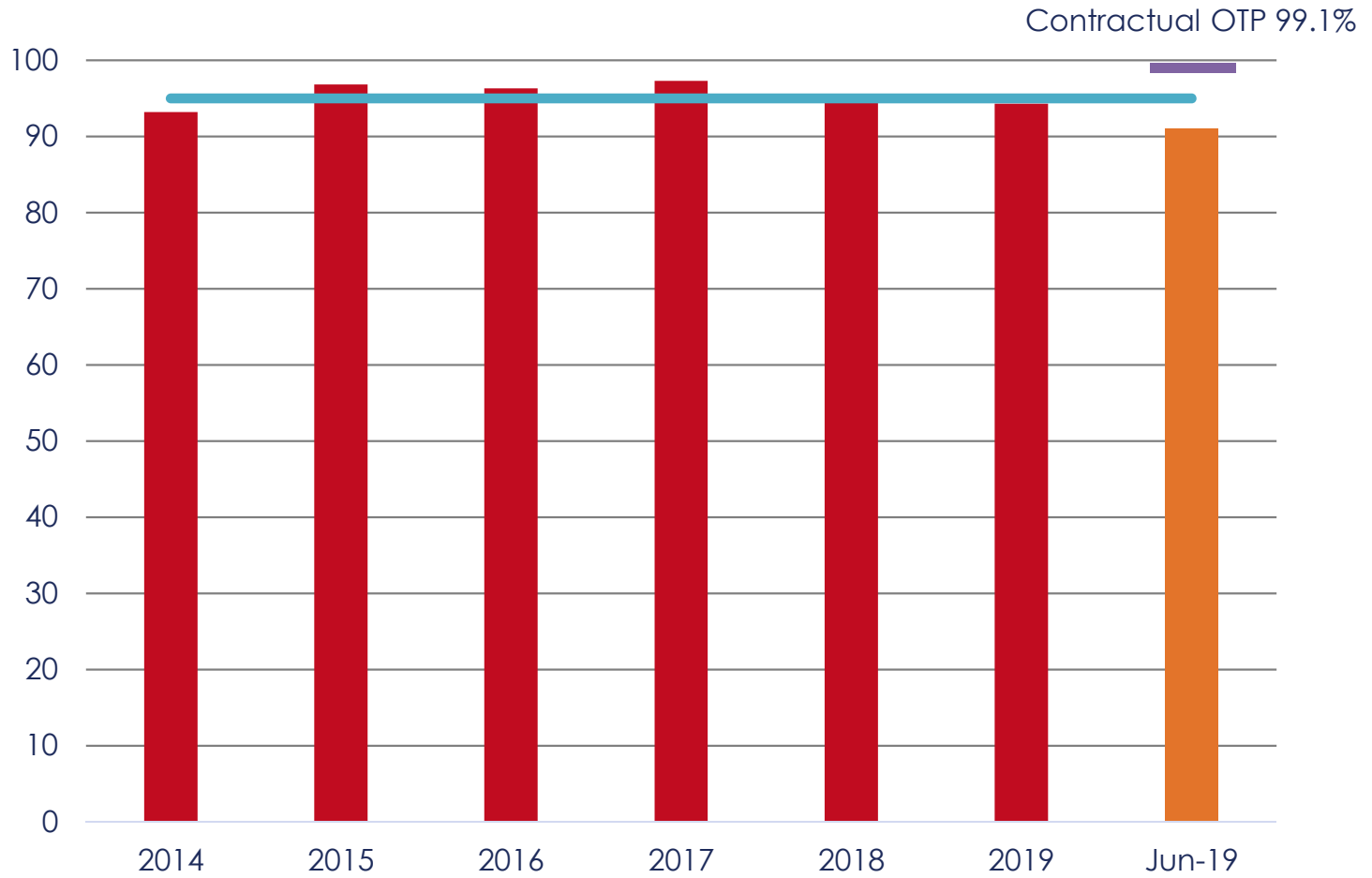
August 20, 2018 – June 30, 2019



ON-TIME PERFORMANCE AVERAGE

From Inception and Current Month


GOAL IS
GREATER
THAN OR
EQUAL TO
95%

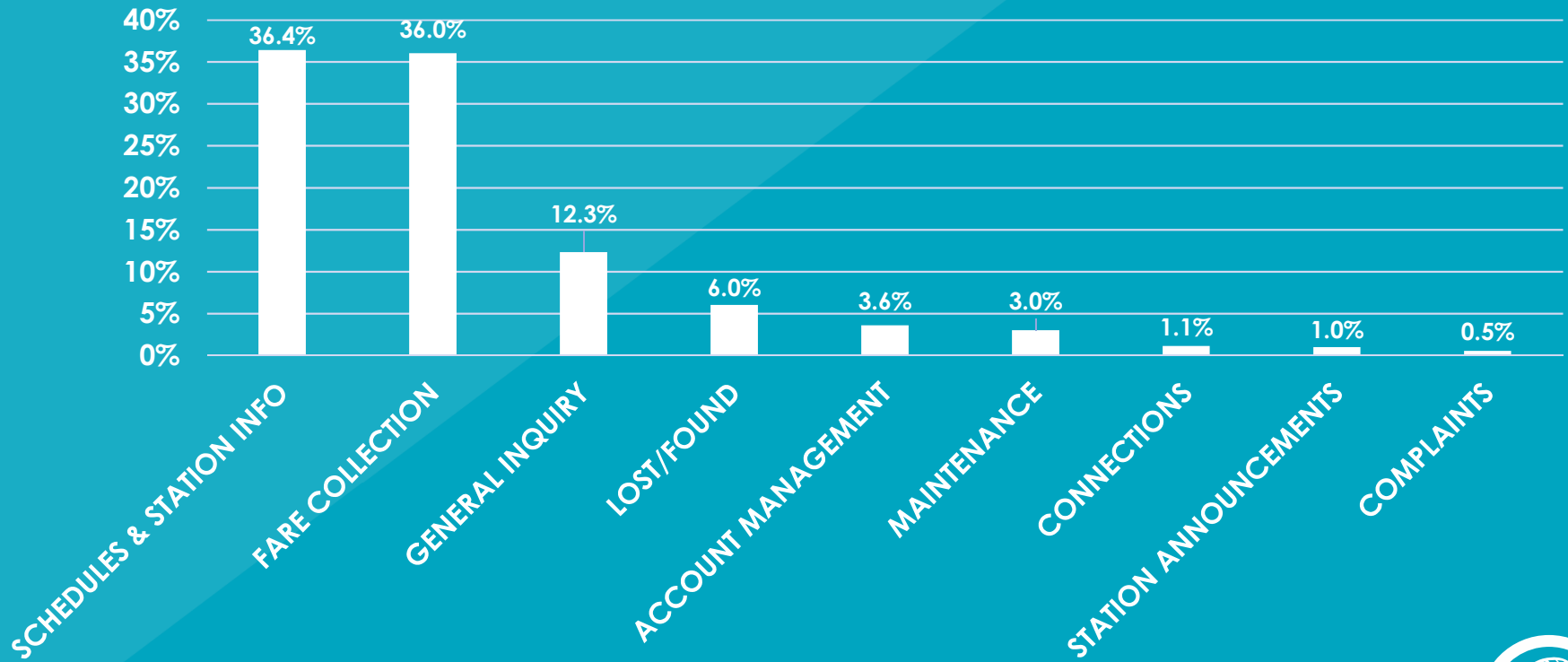


CUSTOMER SERVICE

BUILDING RIDER LOYALTY

Total Calls May & June 2019

5,025

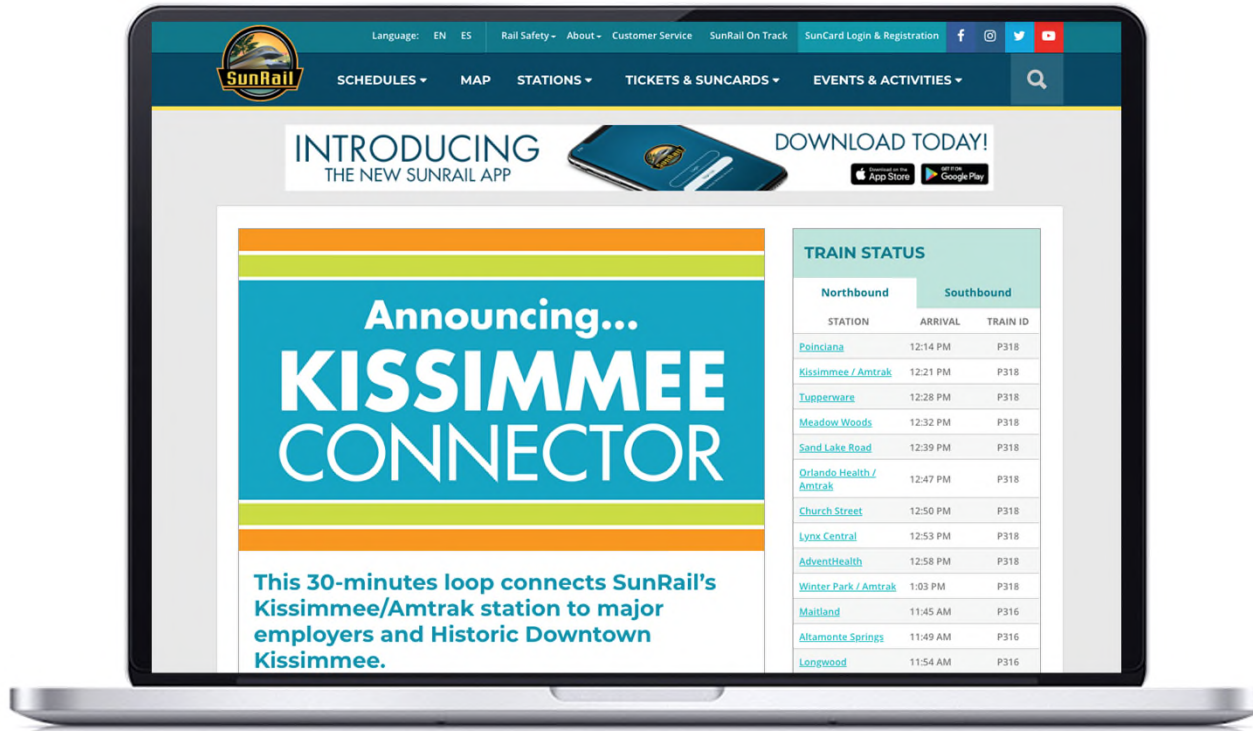


OPERATIONAL PERFORMANCE

AVAILABLE ONLINE

Ridership by Train Now Available

SunRail.com/About/TrainInformation



MARKETING GOALS

Increase Ridership

- Systemwide
- Special Service
- P338 Schedule Survey

Increase SunCard Usage

- App Launch
- Passes & Stored Value
- New Calculator Tools

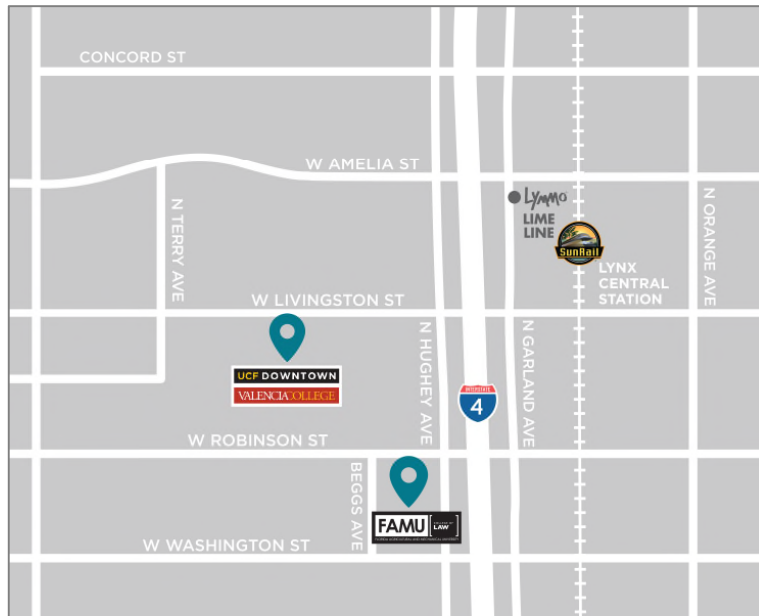
Promote Connectivity

- Osceola & Tupperware
- Choo Choo to the Zoo
- Kissimmee Connector



COUNTDOWN TO CAMPUS

- UCF & Valencia
- FAMU
- Classes begin in August
- Building ridership and SunCard users



YOUR CAMPUS CONNECTION

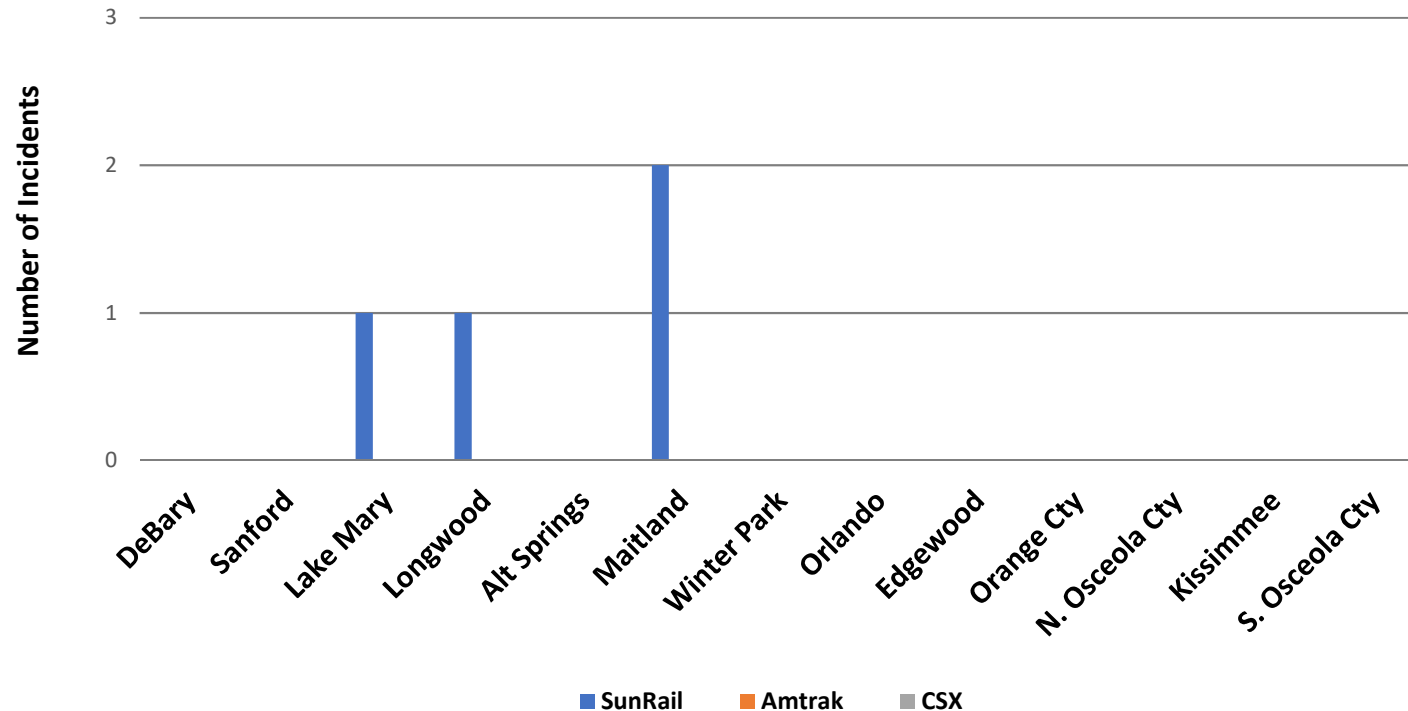


LIMITED TIME OFFER

CLICK TO LEARN MORE

GRADE CROSSINGS

Grade Crossing incidents by City/County May - June 2019



NEW SAFETY CAMPAIGN

AWARDED 1 OF 10 GRANTS BY OPERATION LIFESAVER & FRA

- Launching exciting new mobile safety studio
- Delivering safety message in fun & engaging way
- Scheduling schools, stations & popular destinations near corridor



ADDITIONAL SAFETY MEASURES

SIGNAL BOXES

- Wrapping additional boxes at Pine St. and Holden Ave. crossings



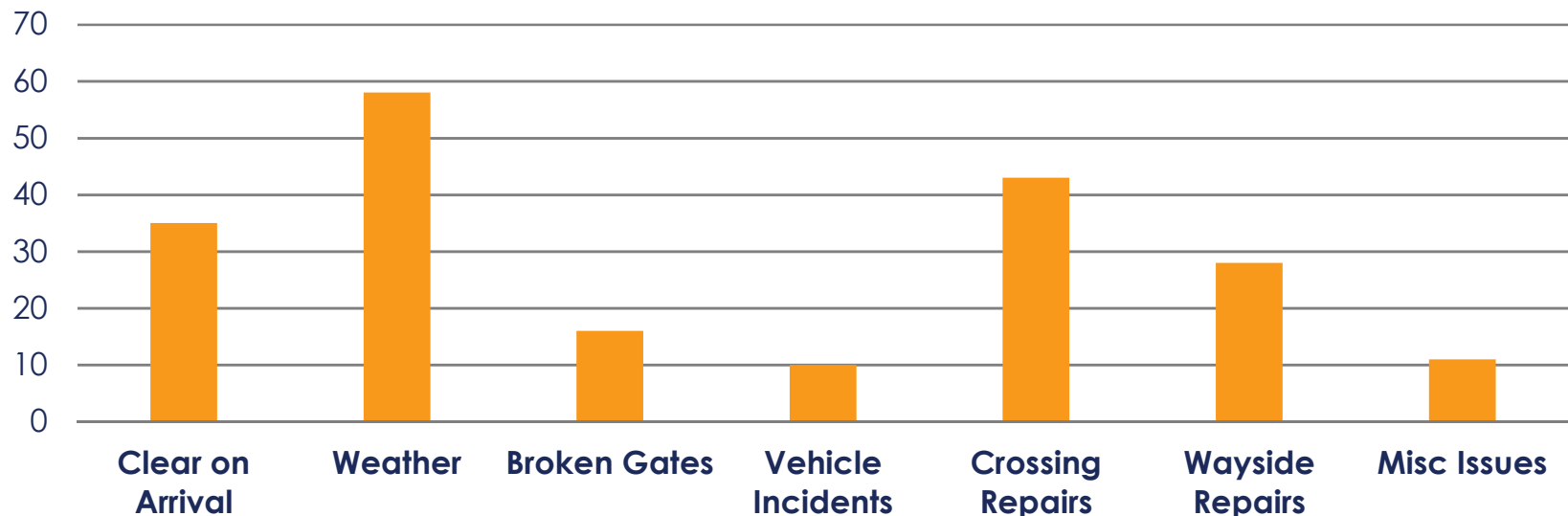
CRISIS SIGNS

- Installing new help signs along the corridor



SIGNALS

May - June 2019 Calls



- Clear on Arrival = Incident reported but was not failing upon maintainer arrival
- Crossing/Wayside Repair = Incident reported and maintainer was required to repair and clear incident
- Misc = Incidents related to train operations, track work, defect detector alarms, etc.

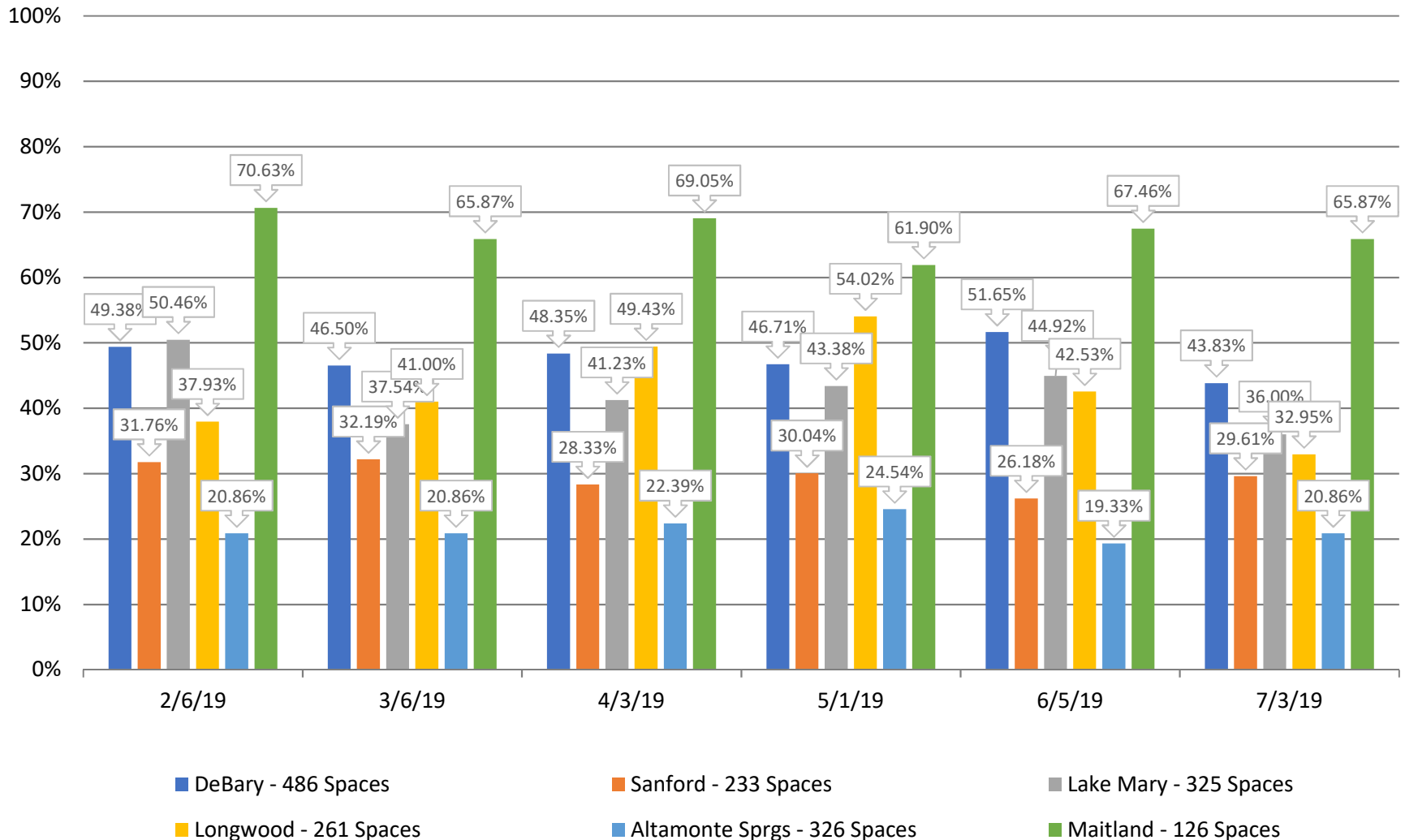
SIGNALS

Enhancements Underway

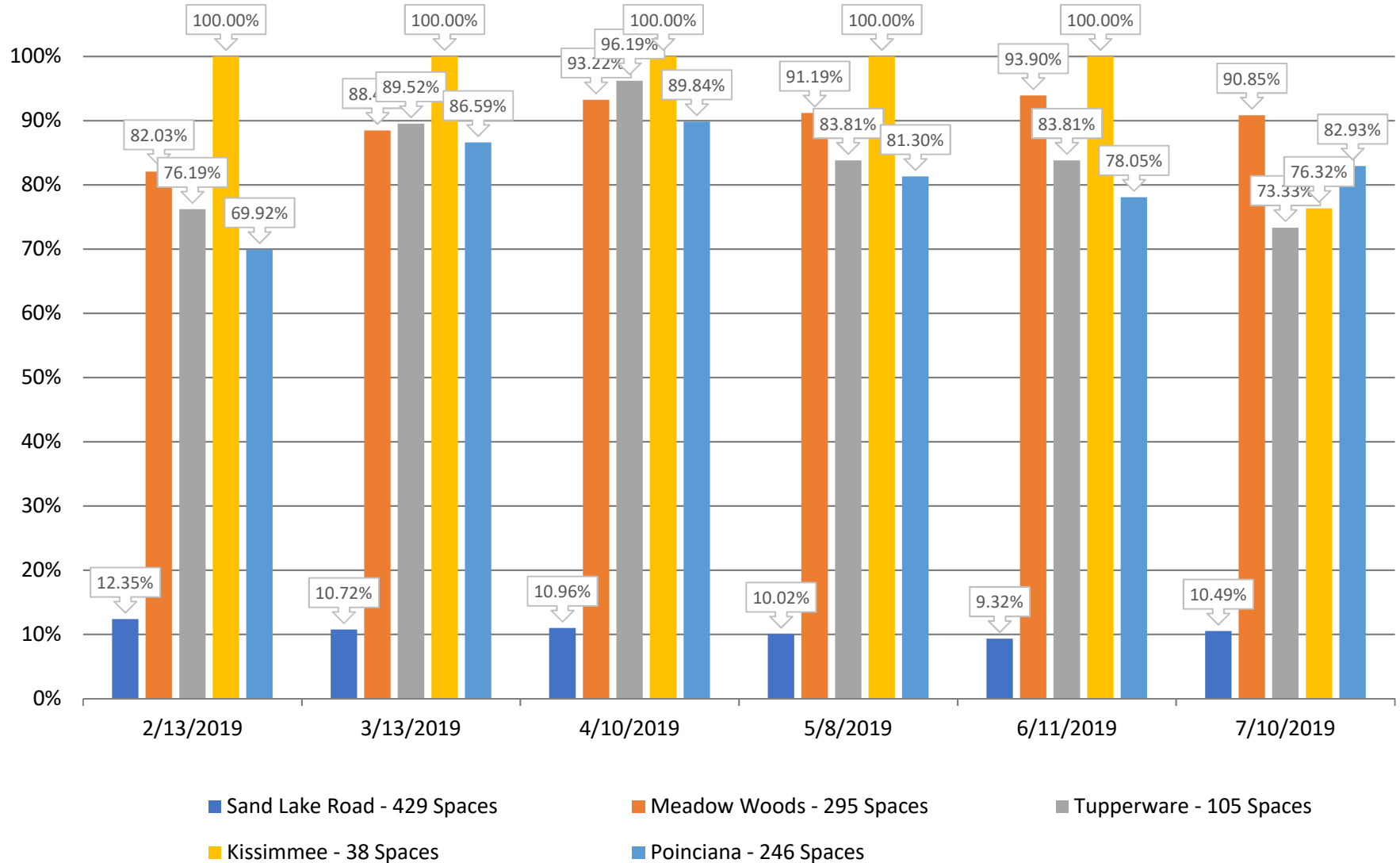
- Evaluation of industry best practices
- Installing wind guards
- Implementing aluminum gates
 - Lighter weight
 - Able to withstand stronger weather conditions
 - Easier to replace



MONTHLY PARKING USAGE



MONTHLY PARKING USAGE



ON-TIME PERFORMANCE AVERAGE

MAY 2019

CENTRAL FLORIDA RAIL CORRIDOR (CFRC) - SUNRAIL COMMUTER SERVICE		
May 2019 On-Time Performance - Causal Analysis Summary		
On-Time Performance Average:		<u>91.02%</u>
Number of Days of 95% OTP and Above:		<u>16</u>
Number of Operating Days:		<u>22</u>
Train Performance Overview	Trains	Percentage
On-Time	801	91.0%
Late	76	8.6%
Annulled	3	0.3%
Total Trains Operated	880	100.0%

Performance Detail	Days	Trains	Percentage
Weather	2	55	6.3%
Trespasser/Grade Crossing/Near Misses	2	9	1.0%
Mechanical	4	6	0.7%
Other	1	3	0.3%
Signals & Components	2	2	0.2%
Train Interference	1	2	0.2%
Police Activity	1	1	0.1%
Postive Train Control	1	1	0.1%
Total (Rounded)		79	9.0%

Note: Only categories with a value greater than zero are displayed and rounded to one decimal.

ON-TIME PERFORMANCE AVERAGE

JUNE 2019

CENTRAL FLORIDA RAIL CORRIDOR (CFRC) - SUNRAIL COMMUTER SERVICE		
June 2019 On-Time Performance - Causal Analysis Summary		
On-Time Performance Average:		91.00%
Number of Days of 95% OTP and Above:		13
Number of Operating Days:		20
Train Performance Overview	Trains	Percentage
On-Time	728	91.0%
Late	56	7.0%
Annulled	16	2.0%
Total Trains Operated	800	100.0%

Performance Detail	Days	Trains	Percentage
Weather	3	23	2.9%
ROW Foul	2	20	2.5%
Trespasser/Grade Crossing/Near Misses	3	11	1.4%
Mechanical	6	6	0.8%
Passengers	4	4	0.5%
Maintenance of Way	2	2	0.3%
Police Activity	1	2	0.3%
Signals & Components	1	2	0.3%
Postive Train Control	1	1	0.1%
Train Interference	1	1	0.1%
Total (Rounded)		72	9.0%

Note: Only categories with a value greater than zero are displayed and rounded to one decimal.

BUDGET UPDATE

OPERATING REVENUE	YEAR ENDED JUNE 30, 2019	
	BUDGET	ACTUAL
Farebox revenue	\$3,551,400	\$3,129,787
CSX usage fees	\$3,231,836	\$3,253,225
Amtrak usage fees	\$1,013,494	\$983,483
FCEN usage fees	\$23,361	\$25,344
Right-of-way lease revenue	\$107,221	\$117,712
Ancillary revenue	\$307,490	\$328,971
<i>Subtotal - System revenue</i>	<i>\$8,234,802</i>	<i>\$7,838,522</i>
FTA \$5307 - Urbanized Area Grant Funds	\$9,809,729	\$9,809,729
TOTAL OPERATING REVENUE	\$18,044,531	\$17,648,251

NOTE: These numbers are not audited.

BUDGET UPDATE

OPERATING COSTS, CAPITAL MAINTENANCE AND CONSULTANT SUPPORT	YEAR ENDED JUNE 30, 2019	
	BUDGET	ACTUAL
Bombardier - Operations	\$10,309,865	\$10,393,860
Bombardier - Maintenance	\$15,887,162	\$15,246,471
Bombardier - Incentive/Disincentive	\$1,309,851	\$1,183,642
Conduent - Back-of-the-House Hosting	\$906,140	\$906,141
Conduent - Fare Equipment Maintenance	\$2,163,268	\$2,046,765
Herzog - Signal Maintenance of Way	\$3,162,514	\$3,155,972
Green's Energy - Fuel	\$2,206,080	\$1,905,386
Gallagher - Insurance	\$2,050,000	\$1,695,918
Amtrak - Heavy Vehicle Maintenance	\$1,664,521	\$1,069,233
Wells Fargo - Banking Services	\$6,880	\$4,784
Bank of America - Merchant Services (Banking)	\$90,000	\$93,998
MidFlorida - Armored Car Service	\$52,480	\$43,200
AT&T/Verizon - Wi-Fi Service	\$34,440	\$32,184
Fare Media Smart Card	\$-	\$-
Limited Use Smart Card	\$269,600	\$402,800
Incomm - Card Distribution & Packaging	\$-	\$-
<i>Subtotal - System operating costs</i>	<i>\$40,112,801</i>	<i>\$38,180,354</i>
Feeder Bus Expenses	\$1,843,865	\$1,341,213
Capital Maintenance	\$7,188,940	\$790,623
Consultant Support	\$8,814,461	\$5,842,232
TOTAL OPERATING COSTS, CAPITAL MAINTENANCE AND CONSULTANT SUPPORT	\$57,960,067	\$46,154,422

NOTE: These numbers are not audited.

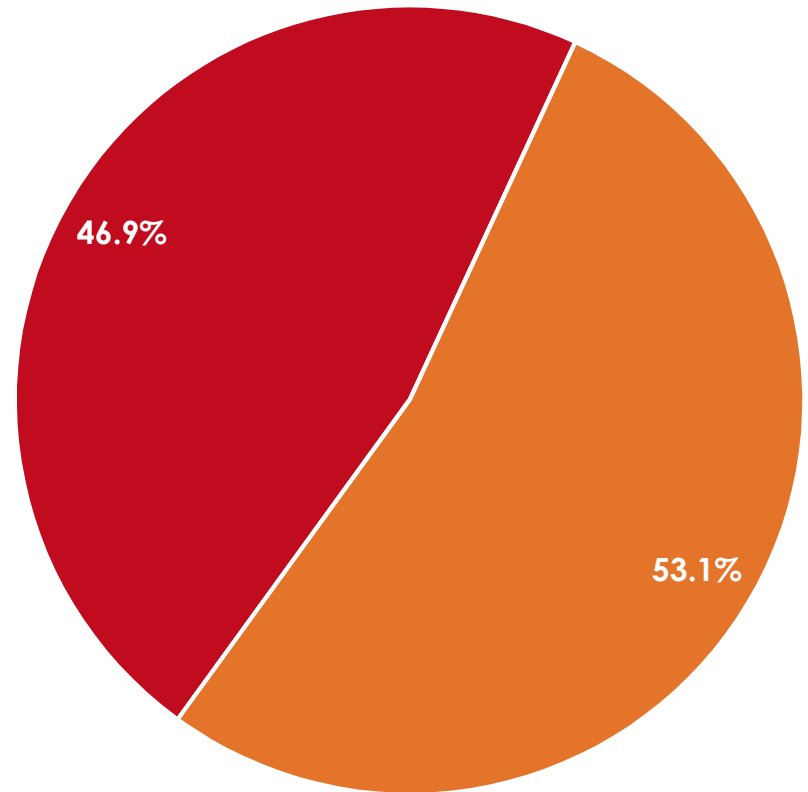
CAPITAL MAINTENANCE

Maintenance ■

Non-recurring corrective or preventive maintenance or in-kind replacement

Improvements ■

Extend the useful life, increase the value or add new uses



■ Maintenance ■ Improvements

FY20 BUDGET

OPERATING REVENUE	FY2020 BUDGET
Farebox revenue	\$3,366,644
CSX usage fees	\$3,293,401
Amtrak usage fees	\$1,028,530
FCEN usage fees	\$25,568
Right-of-way lease revenue	\$120,066
Ancillary revenue	\$336,986
<i>Subtotal - System revenue</i>	<i>\$8,171,195</i>
FTA §5307 - Urbanized Area Grant Funds	\$10,021,711
TOTAL OPERATING REVENUE	\$18,192,906

FY20 BUDGET

OPERATING COSTS, CAPITAL MAINTENANCE AND CONSULTANT SUPPORT	FY2020 BUDGET
Bombardier - Operations	\$10,511,193
Bombardier - Maintenance	\$16,101,451
Bombardier - Incentive/Disincentive	\$1,330,632
Conduent - Back-of-the-House Hosting	\$933,325
Conduent - Fare Equipment Maintenance	\$2,214,588
Herzog - Signal Maintenance of Way	\$3,162,374
Green's Energy - Fuel	\$1,965,924
Gallagher - Insurance	\$1,900,000
Amtrak - Heavy Vehicle Maintenance	\$1,368,067
Wells Fargo - Banking Services	\$4,906
Bank of America - Merchant Services (Banking)	\$95,408
MidFlorida - Armored Car Service	\$44,280
AT&T/Verizon - Wi-Fi Service	\$34,402
Fare Media Smart Card	
Limited Use Smart Card	\$424,620
<i>Subtotal - System operating costs</i>	<i>\$40,091,170</i>
Feeder Bus Expenses	\$1,978,793
Capital Maintenance	\$7,188,940
Consultant Support	\$8,845,417
TOTAL OPERATING COSTS, CAPITAL MAINTENANCE AND CONSULTANT SUPPORT	\$58,104,320

LYNX CONNECTIONS

LYNX Fixed-Route Average Daily Boardings & Alightings by SunRail Station Area													
SUNRAIL STATION	Fiscal Year 2019												ANNUAL DAILY AVERAGE
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Sanford	151	336	339	100	302	358	390	412	409				311
Lake Mary	58	15	62	80	74	116	124	117	98				83
Longwood	40	51	73	53	54	90	102	82	72				69
Altamonte Springs	225	195	192	205	240	171	38	230	91				176
Maitland	27	30	29	12	18	18	26	22	28				23
Winter Park	212	273	286	187	206	269	255	316	310				257
AdventHealth	359	399	380	314	327	266	322	326	362				339
LYNX Central Station													-
Church Street Station													-
Orlando Health/Amtrak	27	34	28	35	26	35	27	22	10				27
Sand Lake Road	248	255	209	193	201	62	54	78	86				154
Meadow Woods	130	120	116	120	115	63	107	167	103				116
Tupperware	23	18	9	N/A	N/A	N/A	N/A	N/A	4				14
Kissimmee Intermodal													-
Poinciana	3	6	5	6	N/A	3	1	N/A	N/A				4
Total - All Stations	1,503	1,732	1,728	1,305	1,563	1,451	1,446	1,772	1,573	-	-	-	1,573

VOTRAN CONNECTIONS

VOTRAN SUNRAIL CONNECTIVITY - June 2019

NOTE: Beginning October 2016 driver keys count only boardings and alightings at DeBary Station. Fiscal years 2014, 2015, and 2016 data reported boardings along SunRail Routes.

Votran Fixed-Route Average Daily Boardings & Alightings at DeBary Station													
Activity at DeBary Station	Fiscal year 2017												Annual Daily Average
	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	
Days of operation	21	21	22	22	20	23	20	22	22	20	23	13	249
Avg Daily Ridership	54	48	68	69	43	46	47	50	58	67	83	80	59

Note: Hurricane Irma in 2017 interrupted SunRail from September 11 to September 19.

Votran Fixed-Route Average Daily Boardings & Alightings at DeBary Station													
Activity at DeBary Station	Fiscal year 2018												Annual Daily Average
	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	
Days of operation	22	21	20	22	20	22	21	22	21	21	23	19	254
Avg Daily Ridership	96	76	79	63	62	69	69	67	61	72	79	72	72

Votran Fixed-Route Average Daily Boardings & Alightings at DeBary Station													
Activity at DeBary Station	Fiscal year 2019												Annual Daily Average
	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	
Days of operation	23	21	20	22	20	21	22	22	20				191
Avg Daily Ridership	98	66	85	89	64	76	66	61	59				74

No SunRail service on Thanksgiving, Christmas, New Year's Day Independence Day, Labor Day, Memorial Day, and Martin Luther King Jr. Day.

* May 2019 Corrected boardings

COMMITTEE MEMBER COMMENTS





Next Meeting: 10/9/19

THANK YOU



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SUNRAIL
AVERAGE BOARDINGS BY LOCAL GOVERNMENT PARTNER
FOR THE FISCAL YEAR ENDED JUNE 30, 2019

Station	Total Boardings	Percentage	Peak Boardings	Percentage	Average Boarding Share
Volusia County					7.29%
DeBary	107,722	7.33%	82,722	7.26%	
Seminole County					20.19%
Sanford	74,620		57,204		
Lake Mary	85,965		68,536		
Longwood	64,556		52,193		
Altamonte Springs	69,463		53,662		
<i>Subtotal Seminole County</i>	294,604	20.05%	231,595	20.33%	
Orange County					24.07%
Maitland	51,154		43,778		
Winter Park/Amtrak	128,930		83,200		
Sand Lake Road	75,374		57,692		
Meadow Woods	101,920		86,824		
<i>Subtotal Orange County</i>	357,378	24.32%	271,494	23.83%	
City of Orlando					33.61%
AdventHealth	87,172		67,610		
LYNX Central	153,038		124,147		
Church Street	168,869		133,132		
Orlando Health/Amtrak	76,227		64,755		
<i>Subtotal City of Orlando</i>	485,306	33.02%	389,644	34.20%	
Osceola County					14.84%
Tupperware	43,311		35,102		
Kissimmee/Amtrak	98,479		72,731		
Poinciana	82,854		56,167		
<i>Subtotal Osceola County</i>	224,644	15.29%	164,000	14.39%	
TOTAL	1,469,654		1,139,455		100.00%

The Boarding Share for each Local Government Partner shall be computed as follows:

- 1) The total number of passengers embarking and disembarking from Stations located within the jurisdiction of the Local Government Partner (LGP) during the most recent Funding Determination Year shall be divided by the total number of passengers embarking and disembarking from all Commuter Rail System Stations for the same period.
- 2) The total number of passengers embarking and disembarking during Peak Hours from Stations located within the jurisdiction of a LGP during the most recent Funding Determination Year shall be divided by the total number passengers embarking and disembarking during Peak Hours from all Commuter Rail System Stations during the same period.
- 3) Boarding Share for each LGP shall be equal to the arithmetic average of the shares computed in items (1) & (2). For the purposes of computing boarding Shares, Stations located within the jurisdiction of the City of Orlando shall be excluded from Stations located within the jurisdiction of Orange County.

Note: Calculation assumes everyone who boards in the AM returns to the same station in the PM (by end of same day).

Quarterly Progress Report Form – Positive Train Control Implementation

To effectively monitor each railroad's progress implementing a positive train control (PTC) system, the Federal Railroad Administration (FRA) is requiring the submission of quarterly progress reports on this form, beginning June 30, 2016, under its investigative authorities. See, e.g., 49 U.S.C. §§ 20107, 20902, 20157(c)(2); 49 C.F.R. § 236.1009(h). Railroads must use this form to report PTC implementation progress data quarterly, by the due dates set forth in the table below. Each railroad should select the correct quarter and year for each quarterly report. A railroad must submit quarterly reports until a PTC system is fully implemented on all required main lines under 49 U.S.C. § 20157 and 49 CFR part 236, subpart I, including a quarterly report for the quarter in which the railroad completes full PTC system implementation.

Quarterly PTC Progress Reports must be submitted electronically to FRA via the FRA Secure Information Repository (SIR) at <https://sir.fra.dot.gov>.

Key Dates for PTC Implementation Quarterly Progress Reporting:

Period	Coverage Period	Progress Report Due Date
Q1	January 1 – March 31	April 30
Q2	April 1 – June 30	July 31
Q3	July 1 – September 30	October 31
Q4	October 1 – December 31	January 31

General Instructions:

- References to a railroad's PTC Implementation Plan (PTCIP) in this form refer to the railroad's revised PTCIP submitted under the Positive Train Control Enforcement and Implementation Act of 2015, or the most current amended PTCIP FRA has approved, if any;
- If a particular category listed in a table does not apply to the railroad's technology, please indicate "N/A"; and
- For Sections 2, 4, and 6, please select a "Status" option from the drop-down menus provided.

Name of Railroad or Entity Subject to 49 U.S.C. § 20157(a):	Central Florida Rail Cor
Railroad Code:	CFRC
Quarterly PTC Progress Report for:	Q2 2019
Date:	7/24/2019

Quarterly Progress Report Form – Positive Train Control Implementation

1. Summary

Category	Cumulative Quantity Completed To Date	Total Quantity Required for PTC Implementation
Locomotives Fully Equipped and PTC Operable	24	24
Installation/Track Segments Completed	4	4
Radio Towers Fully Installed and Equipped	8	8
Employees Trained	116	50
Territories ¹ in Revenue Service Demonstration or in PTC Operation	1	2
Route Miles in Field Testing ²	61.4	61.4
Route Miles in Revenue Service Demonstration ²	12	61.4
Route Miles in PTC Operation	0.0	61.4

Provide a narrative summary of overall PTC implementation progress during the applicable quarter:

PTCIP Ver 10.2 was submitted on March 28, 2019 with approval received June 20, 2019. PTCIP Ver. 10.2 updated the date proposed to initiate RSD on the CFRC Test Territory to no later than April 30, 2019.

On March 28, 2019, CFRC received Conditional Approval for the request to initiate RSD. CFRC initiated RSD operations on the CFRC Test Territory on April 22, 2019. As of July 1, 2019, CFRC is running 28 of 40 daily service trains in Revenue Service Demonstration and will continue to add trains until all trains are running in PTC enabled mode.

The two territories, as shown above, include the PTC Test Track and the remaining CFRC Track or as described by the FRA in the Conditional Approval Letter the Extended RSD Phase 2.

SubDiv file creation for the 61.4 mile CFRC has been completed and the Critical Feature Validation testing was completed on July 17, 2019.

¹ A territory is an entire installation/track segment as identified in the railroad's PTCIP (e.g., a track segment, territory, subdivision, district, etc.) consistent with 49 U.S.C. 20157(a)(3)(B)(vi), 49 CFR part 236, subpart 1.

² As applicable, enter the number of route miles where a PTC system is currently undergoing field testing in one row and, in a separate row, the number of route miles where a PTC system is currently in revenue service demonstration. Railroads must only identify in the "Route Miles in Field Testing" and "Route Miles in Revenue Service Demonstration" fields any route miles that are still currently undergoing PTC field testing and/or revenue service demonstration. For example, if field testing is complete and a railroad is operating its PTC system in revenue service demonstration exclusively, a railroad may write "Complete" in the "Route Miles in Field Testing" fields.

Once a railroad has received written authorization from FRA to operate its PTC system in revenue service (through either provisional operations authorization under 49 U.S.C. 20157(h)(2) or PTC System Certification under 49 U.S.C. 20157(h)(1)), the railroad must identify any route miles where a PTC system is being operated in revenue service in the "Route Miles in PTC Operation" field. If a railroad is operating the PTC system in revenue service and has completed all field testing and revenue service demonstration, it may write "Complete" in the "Route Miles in Field Testing" and "Route Miles in Revenue Service Demonstration" fields.

Quarterly Progress Report Form – Positive Train Control Implementation

2. Quarterly Update on Spectrum

[illegible]

³ If the railroad reported in its PTCTIP that all necessary spectrum had been acquired and was available for use, or the railroad's technology does not require the use of spectrum, please indicate "N/A" in this table.

Quarterly Progress Report Form – Positive Train Control Implementation

Provide any additional narrative for Spectrum below:

The 220 MHz spectrum acquired for PTC is in service and operational.

3. Quarterly Update on Major Milestones

3.1 Locomotive Status

Category/Installation Feature	Q1 – Quantity Installed	Q2 – Quantity Installed	Q3 – Quantity Installed	Q4 – Quantity Installed	Sum of Quarterly Totals	PTCIP Year End Goal (if applicable)	Cumulative Quantity Installed	Grand Total Reported in PTCIP (if applicable)
Locomotive (Apparatus) ⁴								
Locomotives with On-board Computers (e.g., Train Management Computer) Installed	0	0	0	0	0	24	24	24
Locomotives with PTC Displays Installed	0	0	0	0	0	24	24	24
Locomotives with PTC-Capable Event Recorders Installed	0	0	0	0	0	24	24	24
Locomotives with Locomotive Radios Installed – Primary Communications (e.g., 220 MHz radios)	0	0	0	0	0	24	24	24
Transponder Readers (e.g., for non I-ETMS systems)	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A

⁴ If a particular category listed in this table does not apply to the railroad's technology, please indicate "N/A." A railroad may add categories or subcategories in [Appendix A](#) if it wants to provide more detail.

Quarterly Progress Report Form – Positive Train Control Implementation

PTC Software: Describe 1) the railroad's approach to installation of PTC software on its locomotive fleet, and 2) any issues the railroad is experiencing with installed versions of train management software (e.g., reverting back to previous software versions due to errors in the current version):

TMC/Meteorcomm software has been installed 11 of 11 locomotives and 13 of 13 cab cars and are being used in Revenue Service Demonstration.

Provide any additional narrative for Locomotive Status below:

All locomotives and cab cars have PTC equipment installed and functional.

3.2 Infrastructure/Back Office Status

Infrastructure – Back Office Systems	
How many physical back office locations are required for PTC operations, as reported in the PTCIP?	1
How many physical back office locations have been constructed with all necessary equipment installed?	2
Are the Back Office Location(s) fully operable with PTC?	Yes
Are the Dispatching Location(s) fully operable with PTC?	Yes

Quarterly Progress Report Form – Positive Train Control Implementation

Provide any additional narrative for Infrastructure/Back Office Status below:

CFRC is using a hosted Back Office. One BOS is required for PTC operations – a second, redundant BOS has been installed to provide a backup in the event of a failure of the main BOS.

3.3 Infrastructure/Wayside Status

Category/Installation Feature	Q1 – Quantity Installed	Q2 – Quantity Installed	Q3 – Quantity Installed	Q4 – Quantity Installed	Sum of Quarterly Totals	PTCIP Year End Goal ⁵	Cumulative Quantity Installed	Grand Total Reported in PTCIP (if applicable)
Infrastructure – Wayside Installations (Systemwide) ⁶								
Wayside Interface Units	0	0	0	0	0	0	85	85
Communication Towers or Poles	0	0	0	0	0	0	8	8
Switch Position Monitors	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
Wayside Radios	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
Base Station Radios	0	0	0	0	0	0	8	8
Are all necessary communication backbone utilities (including fiber, copper, ground wiring etc.) installed and ready for operation?							Yes	

⁵ Unlike the heading in table 3.1, this heading is not qualified with “(if applicable)” because each railroad was required to provide year-end goals for these particular hardware categories under the PTC Enforcement and Implementation Act of 2015.

⁶ If a particular category listed in this table does not apply to the railroad’s technology, please indicate “N/A.” A railroad may add categories or subcategories in [Appendix A](#) if it wants to provide more detail.

Quarterly Progress Report Form – Positive Train Control Implementation

5. Quarterly Update on Employee Training

Employee Category ⁹	Q1 – # Employees Trained	Q2 – # Employees Trained	Q3 – # Employees Trained	Q4 – # Employees Trained	Sum of Quarterly Totals	PTCIP Year End Goal	Cumulative # of Employees Trained	Grand Total Reported in PTCIP
Employees who Install, Maintain, Repair, Modify, Inspect, and Test the PTC System	0	0	0		0	22	30	22
Employees who Dispatch Train Operations	0	0	0		0	12	13	12
Train and Engine (Operations) Employees	0	0	0		0	10	42	10
Roadway Worker Employees	0	0	0		0	0	0	0
Direct Supervisors of the Above Employees	0	0	0		0	6	31	6

Provide any additional narrative for Employee Training below:

During 2018, CFRC trained a total of 116 employees including O&M Contractors, FDOT employees and FDOT consultants who will be working with PTC. CFRC exceeded its stated goal for training personnel and was able to complete the training of all personnel that required training for PTC implementation.

An overview of PTC and instructions that provided an understanding of how the PTC System affects their safety and how to avoid interfering with its proper functioning was provided to all CFRC personnel using Job Briefings, instruction in the CFRC PTC Critical Asset Change Standard Operating Procedure and a PTC Management Workshop. CFRC personnel included the Roadway Worker Employees.

⁹ See 49 C.F.R. § 236.1041(a).

Quarterly Progress Report Form – Positive Train Control Implementation

6. Quarterly Update on Interoperability Progress and Other Formal Agreements

This section is provided to help railroads describe interoperability information. Please provide any additional information (e.g., an appendix) as appropriate.

Required content:

- For host railroads: provide updates to any agreements and key milestones for all tenant operations
- For tenant railroads: provide updates to any agreements and key milestones for all operations over tracks hosted by another railroad

Host and Tenant Railroads: Provide a general update on interoperability in the textbox below:

CFRC has established a BOS connection from the CFRC hosted environment to CSXT BOS in August 2018 and the Amtrak BOS in September 2018. Completion of interoperability testing to include full interoperability with the tenant railroads is scheduled for no later than November 2020.

CSXT and Amtrak continue to hold PTC Status Meetings with the CFRC/FDOT to discuss project milestones, particularly the scheduling of interoperability testing and RSD. Both CSXT and Amtrak interoperability testing are scheduled to begin in December 2019 during CFRC extended RSD.

FCEN, a tenant Class 3 Short Line freight railroad was granted an FRA approved exception to 49 CFR 236.1006 to operate non-PTC equipped locomotives on the CFRC corridor for interchange purposes on June 27, 2018.

Host Railroads Only: For each tenant, provide additional tenant information below:

Tenant Identification	Estimated Quantity of Tenant Rolling Stock to be Equipped with PTC	Scheduled Completion Date for Interoperability Testing	Current Tenant Implementation Status
CSXT	In Tenant's PTCIP	November 2020	Installing
Amtrak	In Tenant's PTCIP	November 2020	Installing
Florida Central Railroad (FCEN)	N/A	N/A	Operational/Complete
			Choose Status.
			Choose Status.
			Choose Status.
			Choose Status.
			Choose Status.
			Choose Status.

UPCOMING MEETINGS

Commission Meetings (MetroPlan Boardroom)

Thursday August 29 10:00 am – 12:00 noon

Thursday October 31 10:00 am – 12:00 noon

Technical Advisory (LYNX Open Space – 2nd Floor)

Wednesday October 9 2:00 pm – 3:00 pm

Customer Advisory (LYNX Open Space – 2nd Floor)

Thursday October 3 5:00 pm – 6:00 pm