

Agenda Item 7-A Action Item

To:	Chair Bennett-Parker and the VRE Operations Board
From:	Rich Dalton
Date:	March 19, 2021
Re:	Acceptance of Title VI Service Standards and Policies Monitoring Results

Recommendation:

The VRE Operations Board is asked to accept the results of the Title VI Service Standards and Policies Monitoring and forward them to the Potomac and Rappahannock Transportation Commission (PRTC) for inclusion in PRTC's Title VI submittal.

Summary:

To safeguard against service design and operations that discriminate on the basis of race, color, or national origin, the Federal Transit Administration (FTA) requires transit systems to monitor and analyze the performance of their systems every three years relative to their system-wide service standards. **VRE service meets or exceeds its standards for vehicle load, vehicle headway, service availability, and distribution of transit amenities and vehicle assignments. VRE did not meet its on-time performance goal on either line for the period monitored (FY20), but because the standard was not met on both lines there was no disparate impact on any particular protected class.**

Background:

As prescribed in FTA Circular 4702.1B, "Title VI Requirements and Guidelines for Federal Transit Administration Recipients," FTA requires transit providers to monitor the performance of their transit system relative to their system-wide service standards and service policies (e.g. vehicle load, vehicle assignment, transit amenities, etc.) every three years.



Northern Virginia Transportation Commission 2300 Wilson Blvd., Suite 230 Arlington, VA 22201 703-524-3322



Virginia Railway Express 1500 King Street, Suite 202 Alexandria, VA 22314 703-684-1001 VRE.org



Potomac and Rappahannock Transportation Commission 14700 Potomac Mills Road Woodbridge, VA 22192 703-580-6121 The results of VRE's Service Standards and Policies Monitoring must be submitted as part of PRTC's Title VI submittal to the FTA that is due in April 2021.

VRE staff has conducted the required monitoring, the results of which are attached along with the VRE Title VI Service Standards and Policies.

Fiscal Impact:

There is no fiscal impact to this action.

Virginia Railway Express Operations Board Resolution

7A-03-2021

Acceptance of Title VI Service Standards and Policies Monitoring Results

WHEREAS, the Federal Transit Administration requires transit providers to monitor the performance of their transit system relative to their system-wide service standards and service policies; and,

WHEREAS, VRE must submit results of the monitoring of its system-wide service standards and service policies to the Potomac and Rappahannock Transportation Commission (PRTC) for inclusion in PRTC's Title VI submittal to the FTA;

NOW, THEREFORE, BE IT RESOLVED THAT, the VRE Operations Board does hereby accept the results of the system-wide service standards and service policies monitoring; and,

BE IT FURTHER RESOLVED THAT, the results of the system-wide service standards and service policies monitoring shall be forwarded to the Potomac and Rappahannock Transportation Commission for inclusion in their Title VI submittal.

Approved this 19th day of March 2021

Elizabeth Bennett-Parker Chair

James Walkinshaw Secretary

VRE SYSTEM-WIDE SERVICE STANDARDS AND POLICIES

The Virginia Railway Express (VRE) System-Wide Service Standards and Policies address how service is distributed across the system and ensures services provided are fairly accessible to users. Service policies also ensure that service design and operations practices do not result in discrimination on the basis of race, color, or national origin.

These standards and polices are required by Federal law, as described in Federal Transit Administration (FTA) Circular 4702.1B, "Title VI Requirements and Guidelines for Federal Transit Administration Recipients", which became effective October 1, 2012. The Circular requires any FTA recipient that operates 50 or more fixed route vehicles in peak service located in urbanized areas (UZA) of 200,000 or more people to develop service standards and policies that monitor performance of service every three years. The service standards and policies, as well as evidence of service monitoring, will become a portion of the Title VI Plan which is submitted to FTA every three years.

Required quantitative standards are compiled for vehicle load, vehicle headway, on-time performance, and service availability. Required service policies are composed for distribution of transit amenities and vehicle assignments. Additional standards or policies may be developed as appropriate.

SERVICE STANDARDS

A. Vehicle Load

Vehicle load or load factor is expressed as the ratio of passengers per vehicle or the ratio of passengers to the number of seats on a vehicle at the vehicle's maximum load point. It is used to determine the extent of likely overcrowding, to assign equipment (e.g., number/type of rail cars), and to make subsequent adjustments by lengthening or shortening trains.

VRE's goal is to not exceed the total number of seats available, plus allow no more than 15 standees per coach for the midweek average on any single train traveling through the maximum load point in the peak direction and hour. A maximum capacity factor of 1.11 per train has been designated to allow for up to 15 standees per passenger coach on VRE trains based on typical train sets currently being operated (Table 1).

Table 1: VRE Passenger Capacity by Train as of July 2020 (reduced service due to pandemic)

Train Pair	Total # of Seats
300 / 305	1045
302 / 309	910
306 / 307	1045
310 / 313	780
314 / 301	780

Fredericksburg Line

Manassas Line

Train Pair	Total # of Seats
324/331	780
328/327	1040
330/325	1040
332/335	780

Usually, VRE operates its trains in sets of four to eight cars to accommodate the level of ridership on each train. An eight-car train is the largest train set that VRE currently utilizes due to storage limitations in VRE storage yards. Train sets typically include a cab car and three to seven trailer coaches and at least one coach includes a bathroom. During the pandemic VRE reduced service to our "S" schedule, and later to the "S" schedule plus an additional train on each line with sets of six to eight cars allowing for better social distancing. This new schedule is known as "S" Plus.

Reviews and adjustment of train sizes are considered when passenger capacity exceeds or falls below established volume points. Adjustments are also made to train length when a typical ridership is expected prior to a holiday, impending weather event or other special circumstance. Capacity guidelines may be relaxed during temporary surges in demand or for special event trains.

B. Vehicle Headway

Vehicle headway measures the amount of time between two successive vehicles traveling in the same direction on a given line or combination of lines. It is a general indicator of the level of service provided along a line or route. A shorter headway corresponds to more frequent service.

VRE peak headways are generally about 30 minutes for each line. VRE schedules peak service and determines vehicle headway based upon an analysis of ridership, commuter demand, the operating windows and slots allowed in the operating contract with its host railroads (i.e. Norfolk Southern for the Manassas Line, CSX Transportation (CSXT) for the Fredericksburg Line, the shared line between Alexandria and Washington, D.C. Union Station, and Amtrak for access to D.C. Union Station). Since VRE operates within a mixed traffic environment and shares the tracks with freight and Amtrak trains, the amount of time between any two trains is based on how those trains fit into the overall schedule. Train schedules also consider the merging of the Fredericksburg and Manassas Line trains, as well as other trains on the railroad, into one line at Alexandria.

VRE's operating agreements also limit the ability of VRE to add service at will and/or expand its operating territory. The host railroad must approve any service additions or changes in schedule before they can be implemented. Currently, VRE trains operate primarily during the morning and evening peak travel periods in the peak direction of travel. The Manassas Line has some limited reverse-flow service that primarily serves to position equipment for subsequent peak service. Each line has one mid-day train departing the Washington, D.C. central business district.

C. On-Time Performance

On-time performance (OTP) is the measure of trips completed as scheduled. VRE's OTP standard is that trains shall arrive at their final destination at or within five minutes of their scheduled arrival time and no revenue train is allowed to leave an intermediate station before it is scheduled to depart, unless noted otherwise on passenger timetables.

VRE's fiscal year (FY) 2020 target for OTP is greater than 90%. VRE sets an annual target for OTP as part of its budget process. Factors considered in setting the target include operational safety, preventive maintenance scheduled for the right of way provided by the host railroad, ability to meet the current schedule factoring in VRE rolling stock reliability and efficiency testing, and projected impact on service because of weather or other variables.

VRE calculates OTP for each line and for the system as a whole. OTP is calculated as a percentage of on-time trains divided by the total scheduled revenue trains. Trains cancelled or annulled due to force majeure events (e.g., flooded right-of-way, government shutdown, etc.) are excluded from the calculation of OTP.

D. Service Availability

Service availability is a general measure of the distribution of routes within a transit provider's service area. For a commuter rail agency, service availability can be defined as the number or density of residents who are potential riders within a certain driving distance of the stations.

VRE's service area encompasses the nine Virginia jurisdictions that are served under the VRE Master Agreement: Arlington County, City of Alexandria, Fairfax County, Prince William County, City of Manassas, City of Manassas Park, Stafford County, City of Fredericksburg, and Spotsylvania County.

VRE operates trains along two lines that run within existing railroad rights-of-way. Currently, there are six origin stations along the Manassas line and nine origin stations along the Fredericksburg line. Origin stations are located two to 11 miles apart. The population of the catchment areas for the origin stations varies from 100,000 – 150,000 on the Manassas Line, and 50,000 – 125,000 on the Fredericksburg Line. System-wide, there are five destination stations. The destination stations are co-located with Metrorail stations providing VRE riders with access to the greater Washington, D.C. metro area.

VRE's operating agreements with the host railroads, CSXT and Norfolk Southern, affect VRE's ability to add service at will and/or expand its operating territory, including adding stations to a line or extending a Line. New stations or extensions are undertaken in cooperation and coordination with the local jurisdiction where the station or extension will be located. New stations or service extensions must be approved by the host railroad before they can be implemented.

Factors considered in determining service availability of new infill stations or service extensions include:

Transit Demand/Ridership Potential Proximity to existing stations, both VRE and other regional transit hubs Operational Feasibility Passenger Transit Access Parking Availability Capital Funding Availability Community Impact Environmental Impact

SERVICE POLICIES

A. Vehicle Assignment

Vehicle assignment refers to the process by which transit vehicles are assigned to either line on the VRE system.

VRE's locomotive fleet consists solely of standard four-axle diesel-electric locomotives with similar horsepower ratings, tractive effort, and appearance. As none of VRE's territory is electrified using overhead catenary wire, there is no difference in propulsion power requirements throughout the system. All VRE locomotives were put into service in 2011 and are uniformly compatible with VRE's passenger coach fleet. Locomotives are distributed based on need and positioning for service.

VRE's passenger coach fleet consists of two types of coaches as indicated in Table 2. None of the passenger coaches are self-propelled. Coaches are not assigned to trains or routes specifically but are assigned as needed to the Manassas or Fredericksburg lines depending on demand/required seating capacity, routine and non-routine maintenance needs, and inspection cycles. The typical September 2020 ('S" Plus schedule) vehicle assignment is shown in Tables 2 and 3.

Table 2: Typical Fredericksburg Line Consists (September 2020)

Train Pair	1	2	3	4	5	6	7	8
300 / 305	GC	G	G	G	G	G	G	G
302 / 309	GC	G	G	G	G	G	G	
306 / 307	GC	G	G	G	G	G	G	G
310 / 313	GC	G	G	G	G	G		
314 / 301	GC	G	G	G	G	G		

GC = Gallery Cab G = Gallery Coach

Table 3: Typical Manassas Line Consists (September 2020)

Train Pair	1	2	3	4	5	6	7	8
324 / 331	GC	G	G	G	G	G		
328/327	GC	G	G	G	G	G	G	G
330 / 325	GC	G	G	G	G	G	G	G
332/335	GC	G	G	G	G	G		

GC = Gallery Cab G = Gallery Coach

B. Distribution of Transit Amenities

Transit amenities are items of comfort, convenience, and safety made available to VRE passengers making use of VRE trains and passenger stations.

All VRE coaches are equipped with onboard amenities such as heating and air conditioning; interior lighting; baggage racks; and public-address systems.

The U.S. Department of Transportation requires that transportation vehicles and transportation facilities be readily accessible and useable by individuals with disabilities consistent with the requirements of the Americans with Disabilities Act (ADA) and that access for individuals with disabilities is provided in the most integrated manner possible. That includes providing individuals who use wheelchairs access to all cars available in each train. All coaches purchased in the future will include onboard lifts.

All cab cars and approximately a third of the trailer coaches have bathrooms. Coaches are deployed among trains so that there is a minimum of one cab car and one trailer coach with a bathroom on each consist. Planned coach purchases to complete the fleet replacement program or expand the fleet will include bathrooms.

Amenities available at VRE stations include but are not limited to: benches; covered structures and/or platform canopies; informational amenities such as system maps, schedules/timetables, and public-address systems; intelligent transportation systems (e.g., electronic fare payment equipment and variable message/vehicle arrival information displays); elevators and escalators; waste containers; public telephones; and park-and-ride facilities.

There are two types of stations maintained by VRE: Autonomous VRE stations and Joint Use stations (see Table 4). Autonomous VRE stations were constructed by VRE for the primary purpose and use of accessing VRE train service. Generally, all autonomous VRE stations are provided the same set of amenities.

Joint-use stations also provide access to Amtrak service. Generally, joint-use stations existed prior to the formation of VRE and may contain amenities available to passengers that are not installed within

autonomous VRE stations. In many cases, VRE has added amenities to the joint-use stations for VRE passengers to use through separate agreements.

While all VRE stations are ADA-compliant, for the purposes of ADA, the following VRE stations are designated key stations:

Washington Union Station L'Enfant Crystal City Alexandria Woodbridge Fredericksburg Burke Centre Broad Run/Airport Spotsylvania

Table 4: VRE Station Amenities	(as of September 20)20)

Station	Line	Joint Use	Benches/Exterior Seating	Waiting Room	Rest room	Elevator	Ped. Under/overpass	Shelters	Platform Canopy	Signage/System Maps	Public Address	Variable Messaging	Ticket Vending	Waste Receptacle	Public Phone	Parking Lots	Bike Racks	Bike Lockers
Spotsylvania	FBG		х	х	х				x	x	х	х	х	х		х	х	
Fredericksburg	FBG	J	х			х	х	х	х	x	х	х	х	х	х	х	х	
Leeland Road	FBG		х					х	х	x	х	х	х	х	х	х	х	
Brooke	FBG		х					х	х	х	х	х	х	х	х	х	х	
Quantico	FBG	J	х	х	х				х	х	х	х	х	х	х	х	х	
Rippon	FBG		х			х	х	х	х	х	х	х	х	х		х	х	
Woodbridge	FBG	J	х	х	х	х	х	х	х	х	х	х	х	х		х	х	
Lorton	FBG		х					х	х	х	х	х	х	х		х	х	
Franc/Springfield	FBG		x			x	x	x	x	х	x	х	х	х		х	х	
Broad Run	MSS		х					х	х	х	х	х	х	х	х	х	х	
Manassas	MSS	J	х	х	х	х			х	x	х	х	х	х		х	х	x
Manassas Park	MSS		x					x	x	x	x	x	x	x		x	x	
Burke Centre	MSS	J	х			х		х	х	х	х	х	х	х	х	х	х	x
Rolling Road	MSS		х					х	х	х	х	х	х	х		х	х	
Backlick Road	MSS		х					х	х	х	х	х	х	х		х	х	x
Alexandria	Both	J	х	х	х		х	х	х	х	х	х	х	х			х	
Crystal City	Both		х					х	х	х	х	х	х	х				
L'Enfant	Both	J	х					х	х	х	х	х	х	х				
Wash. Union Station	Both	J	x	x	x	x	x		х	х	x	x	x	x	x	x	x	

RESULTS OF THE MONITORING PROGRAM

Per the Federal Transit Administration (FTA) Circular 4702.1B, VRE is required to monitor its performance using the quantitative Service Standards and qualitative Service Policies established for the VRE system. Monitoring and assessment of service is intended to compare service provided in areas with a percentage of minority population that exceeds the percentage of minority population in the service area, or "minority routes", to service provided in areas with a percentage of minority populations that is below the percentage of minority population in the service area, or "non-minority routes". However, since VRE only has two routes, i.e. the Fredericksburg Line and the Manassas Line, it is not possible to designate minority and non-minority routes. Monitoring was conducted for each route and for the system as a whole.

SERVICE STANDARDS

A. Vehicle Load

The maximum capacity factor designated for VRE trains is 1.11 under normal circumstances. During the pandemic, VRE is following guidance that allows approximately 45 seats to be used per 130 seats (the per car avg.). The tables below show the capacity factors for the VRE trains on four mid-week days in September 2020 using the 45 seat guidance. These capacity factors indicated there were seats for all passengers onboard that train.

Table 5

	Tuesday September 1, 2020											
Fredericksburg Line Train	Seats	Pandemic Guidance Seats	Ridership	Pandemic Load Factor	Manassas Line Train	Seats	Pandemic Guidance Seats	Ridership	Pandemic Load Factor			
300	1045	360	101	0.28	324	780	270	88	0.33			
301	780	270	40	0.15	325	1040	360	24	0.07			
302	910	315	59	0.19	328	1040	360	78	0.22			
305	1045	360	180	0.50	327	1040	360	72	0.20			
306	1045	360	100	0.28	330	1040	360	38	0.11			
307	1045	360	68	0.19	331	780	270	65	0.24			
309	910	316	113	0.36	332	780	270	27	0.10			
310	780	270	133	0.49	335	780	270	24	0.09			
313	780	270	61	0.23								
314	780	270	44	0.16								

Table 6

	Wednesday September 16, 2020											
Fredericksburg Line Train	Seats	Pandemic Guidance Seats	Ridership	Pandemic Load Factor	Manassas Line Train	Seats	Pandemic Guidance Seats	Ridership	Pandemic Load Factor			
300	1045	360	119	0.33	324	780	270	90	0.33			
301	780	270	43	0.16	325	1040	360	23	0.06			
302	910	315	45	0.14	328	1040	360	97	0.27			
305	1045	360	139	0.39	327	1040	360	110	0.31			
306	1045	360	100	0.28	330	1040	360	51	0.14			
307	1045	360	86	0.24	331	780	270	89	0.33			
309	910	316	107	0.34	332	780	270	23	0.09			
310	780	270	145	0.54	335	780	270	30	0.11			
313	780	270	71	0.26								
314	780	270	53	0.20								

Table 7

	Tuesday September 23, 2020											
Fredericksburg Line Train	Seats	Pandemic Guidance Seats	Ridership	Pandemic Load Factor	Manassas Line Train	Seats	Pandemic Guidance Seats	Ridership	Pandemic Load Factor			
300	1045	360	121	0.34	324	780	270	90	0.33			
301	780	270	45	0.17	325	1040	360	22	0.06			
302	910	315	54	0.17	328	1040	360	96	0.27			
305	1045	360	177	0.49	327	1040	360	94	0.26			
306	1045	360	116	0.32	330	1040	360	43	0.12			
307	1045	360	83	0.23	331	780	270	100	0.37			
309	910	316	129	0.41	332	780	270	32	0.12			
310	780	270	134	0.50	335	780	270	34	0.13			
313	780	270	69	0.26								
314	780	270	55	0.20								

Table 8

	Thursday September 24, 2020											
Fredericksburg Line Train	Seats	Pandemic Guidance Seats	Ridership	Pandemic Load Factor	Manassas Line Train	Seats	Pandemic Guidance Seats	Ridership	Pandemic Load Factor			
300	1045	360	97	0.27	324	780	270	89	0.33			
301	780	270	54	0.20	325	1040	360	33	0.09			
302	910	315	54	0.17	328	1040	360	70	0.19			
305	1045	360	160	0.44	327	1040	360	73	0.20			
306	1045	360	103	0.29	330	1040	360	41	0.11			
307	1045	360	71	0.20	331	780	270	88	0.33			
309	910	316	110	0.35	332	780	270	20	0.07			
310	780	270	140	0.52	335	780	270	32	0.12			
313	780	270	66	0.24								
314	780	270	46	0.17								

B. Vehicle Headways

VRE peak headways were about 30 minutes for each Line. The current schedules are shown below and are available online at vre.org.

Due to the COVID-19 pandemic, VRE is operating at a reduced service level. Effective July 2020 the "S" schedule level is supplemented with Train 300 for the northbound commute and Train 307 for the southbound commute.

VRETrains (M - F) TRAIN #	300	302	304	S 306	308	<u> 5 රැකි</u> 310	න්ම 312	S ල්බ් 314			VRETrains (M - F) TRAIN #	322	324	326	<u>5</u> ල්ක්ල 328	S ල්බ්ල 330	S (5%) 332	<u>ත්</u> ති 336	ර¶ිත 338	Amtra
SPOTSYLVANIA	4:54a	5:04a	5:20a	5:34a	6:00a	6:20a	7:05a	7:33a			BROAD RUN	5:05a	5:35a	6:15a	6:35a	7:20a	7:48a	2:45p	5:10p	-
FREDERICKSBURG	5:05	5:15	5:31	5:45	6:11	6:31	7:16	7:44	6:56a 8:10a		MANASSAS	5:13	5:43				7:56			10.04
LEELAND ROAD	5:12	5:22	5:38	5:52	6:18	6:38	7:23	7:51						6:23	6:43	7:28		2:51	5:16	10:20
BROOKE	5:18	5:28	5:44	5:58	6:24	6:44	7:29	7:57	The second second	Ú D C	MANASSAS PARK	5:19	5:49	6:29	6:49	7:34	8:02	2:56	-	-
QUANTICO	-	5:40	5:56	6:10	6:36	6:56	7:41	8:09		Up Program 752	BURKE CENTRE	5:33	6:03	6:43	7:03	7:48	8:16	3:08	-	
RIPPON	-	5:49	6:05	6:19	6:45	7:05	7:50	8:18	Temporarily	Suspended -	ROLLING ROAD	5:38	6:08	6:48	7:08	7:53	8:21		-	
WOODBRIDGE	5:40	5:56 6:03	6:12	6:26	6:52	7:12	7:57	8:25 8:32			BACKLICK ROAD	5:46	6:16	6:56	7:16	8:01	8:29		-	
LORTON FRANCONIA/SPRINGFIELD	-	6:03	6:19	6:33 6:41	6:59 7:07	7:19	8:04	8:32			ALEXANDRIA	5:59	6:29	7:09	7:29	8:14	8:42	3:30	5:52	11:0
ALEXANDRIA	6:07	6:23	6:39	6:53	7:19	7:39	8:24	8:52				_								
CRYSTAL CITY (L)	6:16	6:32	6:48	7:02	7:28	7:48	8:33	9:01			CRYSTAL CITY (L)	6:08	6:38	7:18	7:38	8:23	8:51	1.1		-
L'ENFANT (L)	6:24	6:40	6:56	7:10	7:36	7:56	8:41	9:09			L'ENFANT (L)	6:16	6:46	7:26	7:46	8:31	8:59			
UNION STATION	6:32a	6:48a	7:04a	7:18a	7:44a	8:04a	8:49a	9:17a			UNION STATION	6:24a	6:54a	7:34a	7:54a	8:39a	9:07a	3:55p	6:25p	
S = Special schedule for holiday de Train allows full-size bicycle Ten-Ride, TLC, 31-Day or Month	u/scooters. Co y Ticket and a	sllapsible bio s Step-Up ti	ycles/scooter ket. VRE In	s are permi	tted on all ti	rains. * = Av		E passenger	s in possession of a valid	ted Seven-Day.	MANASSAS	LINE				6	ine.	_	_	
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de Tran alovs ful sue bicyde Ten-Ride, TLC, 31-Day or Month FREDERICKS VRE Trains (M - F) ** TRAIN # UNION STATION	BURC S db 12:55p	Step-Up ti Step-Up ti S LIN 303 3:10p	E S 305 3:25p	s are permi fo: vre.org 307 4:10p	s S S S S S S S S S S S S S S S S S S S	rains. * = A VRE Amtr VRE Amtr 311 5:15p	rak Info: జా S ర్రశ్ర <u>313</u> 6:00p	E passenger ntrak.com o 315 6:40p	s in possession of a valid r 800-USA-RAIL Armt 6/7 12 7:20a 2:30p	akTrains* 1955 91* 05* 355p 550p 705p	VRETrains (M - F)	dilo			329 4:25p	* S	đã			Amtra 171 450
de=Train allows full-size bicycle Ten-Ride, TLC, 31-Day or Month FREDERICKS VRE Trains (M - F) ** TRAIN <i>B</i> UNION STATION LENFANT	viscooters. Co y Ticket and a BURC S රාල 301 12:55p 1:03	slapsible bic s Step-Up ti G LIN 303 3:10p 3:18	E S 305 3:25p 3:33	s are permi fo: vre.org 307 4:10p 4:18	S 309 4:40p 4:48	ains. * = Av SVRE Amtri SVRE 311 5:15p 5:23	rak Info: ar S ర్రశ్రం <mark>313</mark> 6:00p 6:08	E passenger mtrak.com o 315 6:40p 6:48	s in possession of a valid r 800-USA-RAIL Armt	akTrains* 125* 93* 85*	VRETrains (M - F) TRAIN #	්ත්⊚ 321	325	327		s 331	ල්ම 333	335	337	171 4 :50
de Tran aloos SI4-ize to;de Ten Ride, TLC, 31-Day or Month VRE Trans; (M - F) ** TRAIN # UNION STATION LEN/ANT CRYSTAL CITY	viscooters. Co y Ticket and a BURC S ල්කි 301 12:55p 1:03 1:10	Slapsible bick a Step-Up ti S LIN 303 3:10p 3:18 3:25	E S 305 3:25p 3:33 3:40	307 4:10p 4:25	S 309 4:40p 4:55	ر بری بری بری بری بری بری بری بری بری بر	rak Info: ar S ర్రశ్రం <u>313</u> 6:00p 6:08 6:15	E passenger mtrak.com o 315 6:40p 6:48 6:55	Amt 7200-USA-RAIL	ak Trains* 125 - 01 - 85* 1255 - 550p - 705p 401 - 555 -	VRETrains (M - F) TRAIN # UNION STATION	න්ම 321 6:25a	325 1:15p	327 3:45p	4:25p	S 331 5:05p	රෑව 333 5:30p	335 6:10p	337 6:50p	171 4:50 4:56
de "Tran aloos Bil-ize teccié Ten Ride, TLC, 31-Day or Month VRE Transi (M - F) ** TRAIN IR LINKON STATION LENYANT CRYSTAL CITY ALEXANDRIA	Viscooters. Co y Ticket and a BURC S & 301 12:55p 1:03 1:10 1:18	Slapsible bio a Step-Up ti S LIN 303 3:10p 3:18 3:25 3:33	E S 305 3:25p 3:33 3:40 3:48	307 4:10p 4:18 4:25 4:33	S 309 4:40p 4:55 5:03	ريتين + = ۸۵ VRE Amtri 311 5:15p 5:23 5:30 5:38	s ල්බු S ල්බු 313 6:00p 6:08 6:15 6:23	E passenger mtrak.com o 315 6:40p 6:48 6:55 7:03	Amt 1900-USA RAIL 720a 2:30p 7:38 2:48	akTrains* 1255 931 855 4.01 5.55 -1.14 6.09 7.22	VRE Trains (M - F) TRAIN # UNION STATION LENFANT CRYSTAL CITY	ර්ම් 321 6:25a - -	325 1:15p 1:23 1:30	327 3:45p 3:53 4:00	4:25p 4:33 4:40	S 331 5:05p 5:13 5:20	ර්මා 333 5:30p 5:38 5:45	335 6:10p 6:18 6:25	337 6:50p 6:58 7:05	171 4:50 4:56
de Tran aloos Ed-aze tecció Ten Ride, TLC, 31-Day or Month PREDERICKS VIETrans (M - F) ** TRAN 8 UNON STATION LENFANT CRYSTAL CITY ALEXANDRIA FRANCONJEPRINGERLI	Uscooters. Co y Ticket and i BURC S & 5 301 12:55p 1:03 1:10 1:18 2 1:29	Slapsible bio a Step-Up ti G LIN 303 3:10p 3:18 3:25 3:33 3:44	E S 305 3:25p 3:33 3:40 3:48 3:59	307 4:10p 4:18 4:25 4:33 4:44	S 309 4:40p 4:55 5:03 5:14	رابعة + = Aw VRE Amtri S:15p 5:23 5:30 5:38 5:49	S (45) 313 6:00p 6:08 6:15 6:23 6:34	E passenger mtrak.com o 315 6:40p 6:48 6:55 7:03 7:14	Ant 720a 2.30p 7.38 2.48 Amtrak Stee	ak Trains* 1935 p. 550 p. 705p 401 555 - 414 609 722 -Up Program	VRE Trains (M - F) TRAIN # UNION STATION LENFANT CRYSTAL CITY ALEXANDRIA	6:25a - - 6:42	325 1:15p 1:23 1:30 1:38	327 3:45p 3:53 4:00 4:08	4:25p 4:33 4:40 4:48	S 331 5:05p 5:13 5:20 5:28	ර්මා 333 5:30p 5:38 5:45 5:53	335 6:10p 6:18 6:25 6:33	337 6:50p 6:58 7:05 7:13	171 4:50 4:5(- 5:1
de "Tran aloos Bil-var escyle Ten Ride, TLC, 31-Day or Month VRE Trains (M - F) ** TRAIN # LENFANT CHNON STATION LENFANT CHSTANCONUS/STATION ALEXANDRIA FRANCONUS/STATION LORTON	Jiccoters. Co y Ticket and i BURC S & 5 301 12:55p 1:03 1:10 1:18 1:29 1:36	Slapsible bio a Step-Up ti S LIN 303 3:10p 3:18 3:25 3:33 3:44 3:51	E S 305 3:25p 3:33 3:40 3:48	307 4:10p 4:18 4:25 4:33 4:44 4:51	S 309 4:40p 4:48 4:55 5:03 5:14 5:21	ريةية: ● = Aw VRE Amtri (المحالية) (الممالي) (الممالي) (الممالي)	s ල්බු S ල්බු 313 6:00p 6:08 6:15 6:23	E passenger mtrak.com o 315 6:40p 6:48 6:55 7:03 7:14 7:21	Amt 1900-USA RAIL 720a 2:30p 7:38 2:48	ak Trains* 1935 p. 550 p. 705p 401 555 - 414 609 722 -Up Program	VRETrains (M - F) TRAIN // UNION STATION LEINFANT CRYSTAL CITY ALEXANDRIA BACKLICK ROAD	් ¹ ල 321 6:25a - - 6:42 -	325 1:15p 1:23 1:30 1:38 1:49	327 3:45p 3:53 4:00 4:08 4:19	4:25p 4:33 4:40 4:48 4:59	S 331 5:05p 5:13 5:20 5:28 5:39	ල්ෂීම 333 5:30p 5:38 5:45 5:53 6:04	335 6:10p 6:18 6:25 6:33 6:44	337 6:50p 6:58 7:05 7:13 7:24	1711 4:50 4:5(- 5:1
de Tran aloos Ed-aze tecció Ten Ride, TLC, 31-Day or Month PREDERICKS VIETrans (M - F) ** TRAN 8 UNON STATION LENFANT CRYSTAL CITY ALEXANDRIA FRANCONJEPRINGERLI	Uscooters. Co y Ticket and i BURC S & 5 301 12:55p 1:03 1:10 1:18 2 1:29	Slapsible bio a Step-Up ti G LIN 303 3:10p 3:18 3:25 3:33 3:44	E S 305 3:25p 3:33 3:40 3:48 3:49 4:06	307 4:10p 4:18 4:25 4:33 4:44	S 309 4:40p 4:55 5:03 5:14	رابعة + = Aw VRE Amtri S:15p 5:23 5:30 5:38 5:49	S (55) 313 6:00 6:08 6:15 6:23 6:24 6:24 6:24	E passenger mtrak.com o 315 6:40p 6:48 6:55 7:03 7:14	Ant 720a 2.30p 7.38 2.48 Amtrak Stee	ak Trains* 1935 p. 550 p. 705p 401 555 - 414 609 722 -Up Program	VRE Trains (M - F) TRAIN # UNION STATION LENFANT CRYSTAL CITY ALEXANDRIA	6:25a - - 6:42	325 1:15p 1:23 1:30 1:38	327 3:45p 3:53 4:00 4:08	4:25p 4:33 4:40 4:48	S 331 5:05p 5:13 5:20 5:28	ර්මා 333 5:30p 5:38 5:45 5:53	335 6:10p 6:18 6:25 6:33	337 6:50p 6:58 7:05 7:13	171 4:50 4:5 - 5:1
de Tran aloos Edi-ate tecció Ten Ride, TLC, 31-Day or Month PREDERICKS VRE Trans (M - F) ** TRANS UNION STATION LENFANT CRYSTAL CITY ALEXANDRIA FRANCOLVIS/SPRINGFIELE LORTON WOODBRIGGE	BURC S dbs 301 12:55p 1:03 1:10 1:18 2:29 1:36 1:44	Slupsible bid Step-Up ti G LIN 303 3:10p 3:18 3:23 3:344 3:51 3:59	Cesiscoter ket. VRE in S 305 325p 3:33 3:40 3:59 4:06 4:14	307 4:10p 4:8 4:25 4:31 4:44 4:51 4:59	s 309-RIDE 300-RIDE 309 4:40p 4:48 4:55 5:03 5:14 5:21 5:29	ر 	S (75) 313 6:00p 6:08 6:15 6:23 6:34 6:41 6:49	E passenger ntrak.com o 315 6:40p 6:48 6:55 7:03 7:14 7:21 7:29	Ant 720a 2.30p 7.38 2.48 Amtrak Stee	ak Trains* 1935 p. 550 p. 705p 401 555 - 414 609 722 -Up Program	VRETrains (M - F) TRAIN // UNION STATION LEINFANT CRYSTAL CITY ALEXANDRIA BACKLICK ROAD	් ¹ ල 321 6:25a - - 6:42 -	325 1:15p 1:23 1:30 1:38 1:49	327 3:45p 3:53 4:00 4:08 4:19	4:25p 4:33 4:40 4:48 4:59	S 331 5:05p 5:13 5:20 5:28 5:39	ල්ෂීම 333 5:30p 5:38 5:45 5:53 6:04	335 6:10p 6:18 6:25 6:33 6:44	337 6:50p 6:58 7:05 7:13 7:24	171 4:50 4:5t - 5:1 -
de=Tran aloos Ed=ate tecycle Ten Ride; TLC, 31-Day or Month VRE Trains (M - F) ** TRAN # UNION STATION LENFANT CRYSTAL CITY ALEXANDRIA CRYSTAL CITY ALEXANDRIA CRYSTAL CITY ALEXANDRIA REANCONDERIDGE REPON QUANTICO BROCKE (L)	BURC S & 5 305 1205 1.03 1.10 1.18 9 1.29 1.36 1.44 1.50 2.00 2.14	Slupsible bid Step-Up ti SLIN 303 3:10p 3:18 3:23 3:34 3:51 3:51 3:59 4:05 4:15 4:29	E S 325p 3:25p 3:33 3:40 3:48 3:59 4:06 4:14 4:20 4:30 4:44	307 4:10p 4:18 4:23 4:44 4:51 4:59 5:05 5:15 5:29	s 309 4:40p 4:48 4:55 5:03 5:14 5:21 5:29 5:35 5:45 5:59		S (45) 313 6:00p 6:08 6:15 6:23 6:24 6:34 6:34 6:34 6:34 6:34 6:34 6:34 7:05 7:19	€ passenger ntrak.com c 315 6:40p 6:48 6:55 7.03 7:14 7:21 7:29 7:45 7:45 7:59	And records Area 720a 2.30p 7.38 2.48 Amtrak Ste Temporarily	ak Trans 355p 550p 705p 401 555 414 609 7.22 -Up Program Suspended 412 740	VRE Trains (# TRAIN # UNION STATION LENFANT CRYSTAL CITY ALEXANDRIA BACKLICK ROAD ROLLING ROAD (L)	් ¹ ව 321 6:25a - - 6:42 - -	325 1:15p 1:23 1:30 1:38 1:49 1:57	327 3:45p 3:53 4:00 4:08 4:19 4:27	4:25p 4:33 4:40 4:48 4:59 5:07	S 331 5:05p 5:13 5:20 5:28 5:39 5:47	с ⁴⁴ 6 333 5:30р 5:38 5:45 5:53 6:04 6:12	335 6:10p 6:18 6:25 6:33 6:44 6:52	337 6:50p 6:58 7:05 7:13 7:24 7:32	1711 4:50 4:5(- 5:1 - - 5:3(
Age Tran aloos Edit-aze tecycle Ten Ride, TLC, 31-Day or Month VIES Trainer, (M - F) ** UNADE Trainer, (M - F) ** UNADE TRAINER UNADE TRAINER	BURC 5 55 305 1255 1.03 1:10 1:18 0 1:29 1:36 1:44 1:50 2:00 2:14 2:23	Slupsible bid Step-Up ti S LIN 303 3:10p 3:18 3:25 3:34 3:51 3:59 4:05 4:15 4:29 4:38	Cellicoote ket VRE In S 325 325 333 3:40 3:48 3:59 4:06 4:14 4:20 4:30 4:44 4:53	307 4:10p 4:18 4:25 4:34 4:51 4:59 5:05 5:15 5:29 5:38	s 309 4:40p 4:48 4:55 5:03 5:14 5:21 5:29 5:35 5:45 5:59 6:08	Ante * = Ave SVRE Ante SURE ANT	S (da) 313 6:00p 6:08 6:15 6:23 6:34 6:41 6:49 6:55 7:05 7:19 7:28	€ passenger ntrak.com of 3150 6:48 6:55 7:03 7:14 7:29 7:29 7:25 7:59 8:08	Arnt #80-USA-RAIL	ak Trans 5550 5500 7059 401 555 404 607 722 500 Program Suspended 446 637 752 444 637 752	VRETrans (M - P) TRANK - P UNION STATION LENKANT CRYSTAL CITY ALEXANDRIA BACKLICK ROAD ROLLING ROAD (L) BURKE CENTRE (L) MANASSAS PARK (L)	646 321 6:25a - - 6:42 - - -	325 1:15p 1:23 1:30 1:38 1:49 1:57 2:03 2:17	327 3:45p 3:53 4:00 4:08 4:19 4:27 4:23 4:47	4:25p 4:33 4:40 4:48 4:59 5:07 5:13 5:27	S 331 5:05p 5:13 5:20 5:28 5:28 5:28 5:29 5:47 5:53 6:07	d%6 333 5:30p 5:38 5:45 5:53 6:04 6:12 6:18 6:32	335 6:10p 6:18 6:25 6:33 6:44 6:52 6:58 7:12	337 6:50p 6:58 7:05 7:13 7:24 7:32 7:38 7:52	171 4:50 - 5:11 - - 5:30 -
de=Tran aloos Ed=ate tecycle Ten Ride; TLC, 31-Day or Month VRE Trains (M - F) ** TRAN # UNION STATION LENFANT CRYSTAL CITY ALEXANDRIA CRYSTAL CITY ALEXANDRIA CRYSTAL CITY ALEXANDRIA REANCONDERIDGE REPON QUANTICO BROCKE (L)	BURC S & 5 305 1205 1.03 1.10 1.18 9 1.29 1.36 1.44 1.50 2.00 2.14	Slupsible bid Step-Up ti SLIN 303 3:10p 3:18 3:23 3:34 3:51 3:51 3:59 4:05 4:15 4:29	E S 325p 3:25p 3:33 3:40 3:48 3:59 4:06 4:14 4:20 4:30 4:44	307 4:10p 4:18 4:23 4:44 4:51 4:59 5:05 5:15 5:29	s 309 4:40p 4:48 4:55 5:03 5:14 5:21 5:29 5:35 5:45 5:59		S (45) 313 6:00p 6:08 6:15 6:23 6:24 6:34 6:34 6:34 6:34 6:34 6:34 6:34 7:05 7:19	€ passenger ntrak.com c 315 6:40p 6:48 6:55 7.03 7:14 7:21 7:29 7:45 7:45 7:59	Arnt #80-USA-RAIL	ak Trans ⁶ 855p 550p 705p 401 553 -Up Program Suspended 7.40 446 6.37 752	VRE Trains (M - F) TRAIN 18 UNION STATION LENFANT CRYSTAL CITY ALEXANDRIA BACKLICK ROAD ROLLING ROAD (L) BURKE CENTRE (L)	646 321 6:25a - - 6:42 - - -	325 1:15p 1:23 1:30 1:38 1:49 1:57 2:03	327 3:45p 3:53 4:00 4:08 4:19 4:27 4:23	4:25p 4:33 4:40 4:48 4:59 5:07 5:13	S 331 5:05p 5:13 5:20 5:28 5:39 5:47 5:53	(%6) 333 5:30p 5:38 5:45 5:53 6:04 6:12 6:18	335 6:10p 6:18 6:25 6:33 6:44 6:52 6:58	337 6:50p 6:58 7:05 7:13 7:24 7:32 7:38	1711 4:50 4:5(- 5:1 - - 5:3(

C. On-Time Performance

VRE's OTP for FY 2020 is shown by each line and for the system as a whole in Table 9. The system's Fiscal Year 2020 OTP was 82.54%, which was below the VRE Budget Goal of greater than 90%.

FY 2020 OTP	Fredericks	burg Line		Manassas Line			Combined	Service Days		
Month	Number of Trains Operated	Number of Trains Delayed	ОТР	Number of Trains Operated	Number of Trains Delayed	ОТР	Number of Trains Operated	Number of Trains Delayed	ОТР	
Jul 2019	352	166	52.84%	350	106	69.71%	702	272	61.25%	22
Aug 2019	352	85	75.85%	352	65	81.53%	704	150	78.69%	22
Sep 2019	320	62	80.63%	318	73	77.04%	638	135	78.84%	20
Oct 2019	352	66	81.25%	352	81	76.99%	704	147	79.12%	22
Nov 2019	296	51	82.77%	292	74	74.66%	588	125	78.74%	19
Dec 2019	296	29	90.20%	296	58	80.41%	592	87	85.30%	21
Jan 2020	336	42	87.50%	336	58	82.74%	672	100	85.12%	21
Feb 2020	304	27	91.12%	304	33	89.14%	608	60	90.13%	19
Mar 2020	264	21	92.05%	264	15	94.32%	528	36	93.18%	22
Apr 2020	176	12	93.18%	176	8	95.45%	352	20	94.32%	22
May 2020	160	10	93.75%	160	12	92.50%	320	22	93.13%	20
Jun 2020	176	7	96.02%	176	19	89.20%	352	26	92.61%	22
YTD Average	3384	578	82.92%	3376	602	82.17%	6760	1180	82.54%	252

 Table 9: On-Time Performance for Fiscal Year 2020

D. Service Availability

VRE has defined catchment areas for each origin station based on data collected through customer surveys on the home locations of riders. The populations of the catchment areas for VRE's origin stations, as well as the percentage of minority population, are shown in Table 10. Fredericksburg Line stations are shown in red and Manassas Line stations are shown in blue. While the overall population and minority percentage for each Line are similar, station catchment areas vary widely throughout the system.

Origin Station	Distance to Next Station (miles)	Catchment Area 2010 Population ²	Catchment Area Minority % ³	Difference from System Wide Average
Spotsylvania	Terminus			
Fredericksburg	7.0	121,643	32%	-14%
Leeland Road	3.8	67,626	32%	-14%
Brooke	4.8	72,573	35%	-12%
Quantico	10.7	80,766	48%	2%
Rippon	7.0	101,695	66%	20%
Woodbridge	3.2	104,861	61%	14%
Lorton	4.4	59,358	52%	6%
Broad Run	Terminus	132,107	42%	-5%
Manassas	3.1	149,312	51%	4%
Manassas Park	2.0	102,511	50%	4%
Burke Center	9.1	164,039	41%	-5%
Rolling Road	2.3	110,031	38%	-8%
Backlick Road	4.0	119,059	54%	7%
Fredericksburg Line Origins		608,522	46.6%	0.3%
Manassas Line Origins		777,059	45.9%	-0.4%
System Wide		1,385,581	46.3%	

Table 10: VRE Station Catchment Area Population Characteristics

²Based on Metropolitan Washington Council of Governments Round 8.2 Land Use Forecasts

³ Based on U.S. Census Bureau, 2015-2019 American Community Survey 5-Year Estimates

E. Vehicle Assignment

VRE does not assign locomotives or coaches to trains or routes specifically. Equipment is assigned as needed to the Manassas or Fredericksburg lines depending on demand/required seating capacity, routine and non-routine maintenance needs, and inspection cycles. Consists for three mid-week days in September 2020 are shown below.

		Broad Run			
Out - 1 In - 1	Out - 4 In - 4	Out - 5 In - 5	Out - 8 In - 8	Out - 5 In - 5	
Trains	Trains	Trains	Trains	Trains	
2	3	18	4	19	
324	328	330	332	325	
331	327		335		
6	8	8	6	8	
V726 Cab-T	V719 Cab-T	V716 Cab-T	V715 Cab-T	V716 Cab-T	
V842 Psgr Car-T	V711 Cab-T	V813 Psgr Car-T	V858 Psgr Car	V813 Psgr Car-T	
V838 Psgr Car-T	V843 Psgr Car-T	V806 Psgr Car-T	V812 Psgr Car-T	V806 Psgr Car-T	
V856 Psgr Car	V804 Psgr Car-T	V862 Psgr Car	V811 Psgr Car-T	V862 Psgr Car	
V825 Psgr Car-T	V801 Psgr Car-T	V863 Psgr Car	V836 Psgr Car-T	V863 Psgr Car	
V852 Psgr Car	V850 Psgr Car	V832 Psgr Car-T	V865 Psgr Car	V832 Psgr Car-T	
V55 Engine	V829 Psgr Car-T	V818 Psgr Car-T	V67 Engine	V818 Psgr Car-T	
	V871 Psgr Car	V860 Psgr Car		V860 Psgr Car	
	V57 Engine	V69 Engine		V69 Engine	

Table 11: September 15, 2020

Crossroads								
Out - 2 In - 8	Out - 7 In - 7	Out - 8 In - 0	Out - 6 In - 6	Out - 0 In - 2	Out - 0 In - 2			
Trains	Trains	Trains	Trains	Trains	Trains			
10	12	8	9	11	21			
300	302	306	310	314	301			
305	309	307	313					
8	7	8	6	6	6			
V728 Cab-T	V727 Cab-T	V722 Cab-T	V712 Cab-T	V729 Cab-T	V56 Engine			
V846 Psgr Car-T	V810 Psgr Car-T	V814 Psgr Car-T	V816 Psgr Car-T	V854 Psgr Car	V729 Cab-T			
V853 Psgr Car	V874 Psgr Car	V840 Psgr Car-T	V819 Psgr Car-T	V827 Psgr Car-T	V854 Psgr Car			
V837 Psgr Car-T	V866 Psgr Car	V824 Psgr Car-T	V835 Psgr Car-T	V847 Psgr Car-T	V827 Psgr Car-T			
V828 Psgr Car-T	V833 Psgr Car-T	V868 Psgr Car	V855 Psgr Car	V815 Psgr Car-T	V847 Psgr Car-T			
V803 Psgr Car-T	V830 Psgr Car-T	V873 Psgr Car	V869 Psgr Car	V870 Psgr Car	V815 Psgr Car-T			
V844 Psgr Car-T	V876 Psgr Car	V845 Psgr Car-T	V61 Engine	V54 Engine	V870 Psgr Car			
V879 Psgr Car	V50 Engine	V851 Psgr Car		V56 Engine	V54 Engine			
V51 Engine		V60 Engine						

Table 12: September 16, 2020

	Broa	d Run]
Out - 1 In - 1	Out - 4 In - 4	Out - 5 In - 5	Out - 8 In - 8	
Trains	Trains	Trains	Trains	
2	3	18	4	
324	328	330	332	
331	327	325	335	-
6	8	8	6	
V726 Cab-T	V719 Cab-T	V716 Cab-T	V715 Cab-T	•
V842 Psgr Car-T	V711 Cab-T	V813 Psgr Car-T	V858 Psgr Car	
V838 Psgr Car-T	V843 Psgr Car-T	V806 Psgr Car-T	V812 Psgr Car-T	
V856 Psgr Car	V804 Psgr Car-T	V862 Psgr Car	V811 Psgr Car-T	
V825 Psgr Car-T	V801 Psgr Car-T	V863 Psgr Car	V836 Psgr Car-T	
V852 Psgr Car	V850 Psgr Car	V832 Psgr Car-T	V865 Psgr Car	
V55 Engine	V829 Psgr Car-T	V818 Psgr Car-T	V67 Engine	
	V871 Psgr Car	V860 Psgr Car		
	V57 Engine	V69 Engine		
		Crossroads		
Out - 8 In - 8	Out - 2 In - 0	Out - 0 In - 2	Out - 6 In - 6	Out - 4 In - 4
Trains	Trains	Trains	Trains	Trains
10	11	8	9	12
300	302	306	310	314
305	309	307	313	301
8	7	8	6	6
V728 Cab-T	V727 Cab-T	V722 Cab-T	V712 Cab-T	V710 Cab-T
V846 Psgr Car-T	V720 Cab-T	V814 Psgr Car-T	V816 Psgr Car-T	V823 Psgr Car-T
V853 Psgr Car	V854 Psgr Car	V840 Psgr Car-T	V819 Psgr Car-T	V800 Psgr Car-T
V837 Psgr Car-T	V827 Psgr Car-T	V824 Psgr Car-T	V835 Psgr Car-T	V831 Psgr Car-T
V828 Psgr Car-T	V847 Psgr Car-T	V868 Psgr Car	V855 Psgr Car	V878 Psgr Car
V803 Psgr Car-T	V815 Psgr Car-T	V873 Psgr Car	V869 Psgr Car	V875 Psgr Car
V844 Psgr Car-T	V870 Psgr Car	V845 Psgr Car-T	V61 Engine	V63 Engine
V879 Psgr Car	V54 Engine	V851 Psgr Car		
V51 Engine		V60 Engine		
	1		1	1

Table 13: September 17, 2020

	Broa	d Run]
Out - 1 In - 1	Out - 4 In - 4	Out - 3 In - 3	Out - 8 In - 8	
Trains	Trains	Trains	Trains	
2	3	18	4	
324	328	330	332	
331	327	325	335	-
				-
	0	0	6	-
6 V726 Cab-T	8 V719 Cab-T	8 V721 Cab-T	6 V715 Cab-T	
V720 Cab-1	V719 Cab-1	V721 Gab-1	VIIS Cab-1	
V842 Psgr Car-T	V711 Cab-T	V718 Cab-T	V858 Psgr Car	
V838 Psgr Car-T	V843 Psgr Car-T	V807 Psgr Car-T	V812 Psgr Car-T	
V856 Psgr Car	V804 Psgr Car-T	V822 Psgr Car-T	V811 Psgr Car-T	
V825 Psgr Car-T	V801 Psgr Car-T	V820 Psgr Car-T	V836 Psgr Car-T	
V852 Psgr Car	V850 Psgr Car	V802 Psgr Car-T	V865 Psgr Car	
V55 Engine	V829 Psgr Car-T	V817 Psgr Car-T	V67 Engine	
	V871 Psgr Car	V872 Psgr Car		
	V57 Engine	V65 Engine		
		Crossroads		
Out - 8 In - 3	Out - 0 In - 8	Out - 3 In - 0	Out - 6 In - 6	Out - 4 In - 4
Trains	Trains	Trains	Trains	Trains
10	11	8	9	12
300	302	306	310	314
305	309	307	313	301
8	7	8	6	6
V728 Cab-T	V727 Cab-T	V725 Cab-T	V712 Cab-T	V710 Cab-T
V846 Psgr Car-T	V720 Cab-T	V723 Cab-T	V816 Psgr Car-T	V823 Psgr Car-T
V853 Psgr Car	V854 Psgr Car	V809 Psgr Car-T	V819 Psgr Car-T	V800 Psgr Car-T
V837 Psgr Car-T	V827 Psgr Car-T	V808 Psgr Car-T	V835 Psgr Car-T	V831 Psgr Car-T
V828 Psgr Car-T	V847 Psgr Car-T	V859 Psgr Car	V855 Psgr Car	V878 Psgr Car
V803 Psgr Car-T	V815 Psgr Car-T	V821 Psgr Car-T	V869 Psgr Car	V875 Psgr Car
V844 Psgr Car-T	V870 Psgr Car	V861 Psgr Car	V61 Engine	V63 Engine
V879 Psgr Car	V54 Engine	V877 Psgr Car		
V51 Engine		V58 Engine		
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F. Distribution of Transit Amenities

VRE makes transit amenities available to VRE passengers to the greatest extent feasible to support their comfort, convenience, and safety on VRE trains and passenger stations. VRE strives to maintain existing amenities in good repair and installs additional amenities as the need arises.