

State of the Bus Fleet - Supplemental Charts and Graphs

Chart 1 – Miles Between Road Calls

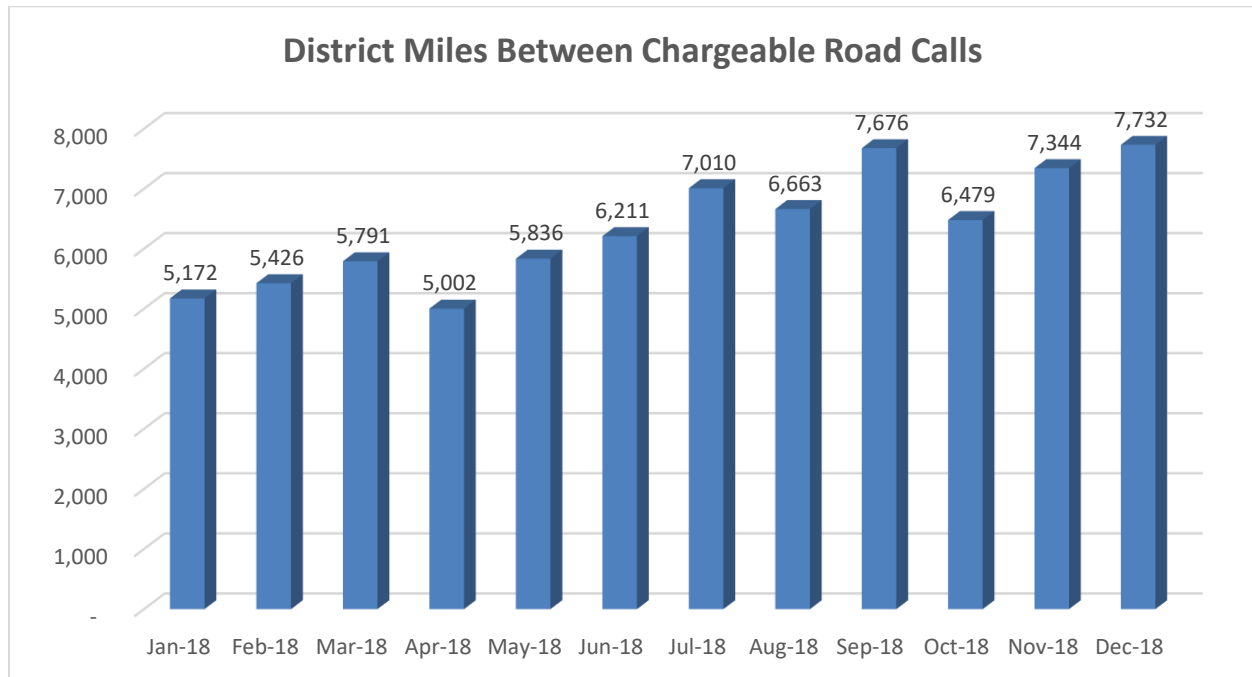


Chart 2 – BCI Scores

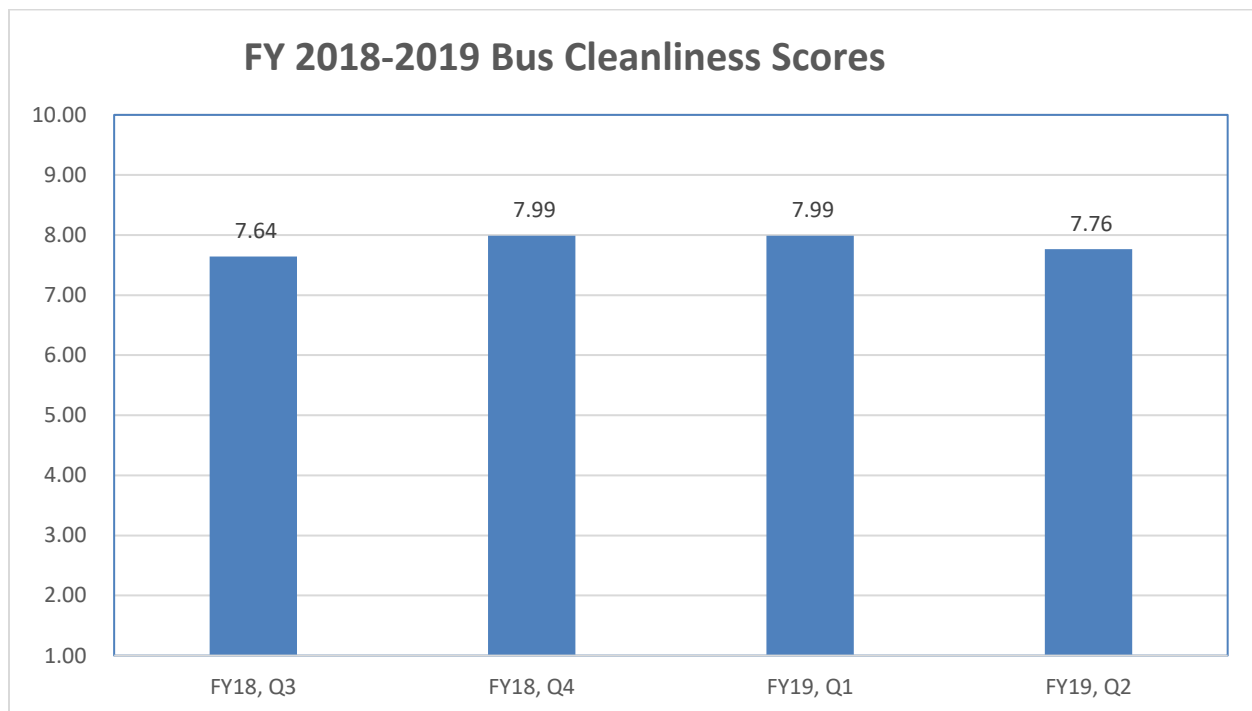


Chart 3 – PMI Audit Program Sample

	BUS NO.	2210		DIVISION	
Category	Total Lines	Mechanic Defects	QA Defects	Difference	Result
DRIVER'S AREA	32	0	0	0	100%
INTERIOR	17	0	1	1	94%
DOOR SYSTEMS	10	0	2	2	80%
EXTERIOR / BODY	14	0	1	1	93%
AIR SYSTEMS & BRAKES	19	2	3	1	95%
CHASSIS & SUSPENSION	19	0	0	0	100%
ENGINE / TRANSMISSION	25	0	4	4	84%
BUS ELECTRICAL	7	0	0	0	100%
HVAC	7	0	2	2	71%
ROAD TEST	5	0	0	0	100%
OVERALL					93%

Chart 4 - Quality Assurance Preventative Maintenance Inspection Review Sample



QA PMI Repairs Audit

Coach: 2210

PMI Repair WO#:1959164

Date Inspected: 10/5/17

Percent of Proper Repair: 92%

Task #	Description of Defects By PM Inspector	Repair Date	Comment Y or N	Proper repair Y or N
1	Left center brake at 62 mm	10/12/17	y	y
2	Right rear brake at 62 mm	10/12/17	y	y
Description of Defects by QA				
1	Air brake hose securement clamp loose-Center axle-right side-marked	10/9/17	y	y
2	2 Coolant pipe isolators broken- Turbo side- marked	10/9/17	y	y
3	Coolant level sight glass not secured properly	10/9/17	y	y
4	Engine oil dipstick doesn't lock in place- tabs on dipstick broken	10/8/17	y	y
5	DEF leak at top of DEF tank	10/8/17	y	y
6	Service valve caps missing at A.C. compressor	10/9/17	y	y
7	Ceiling panel in front of last set of exit doors loose- right side	10/9/17	y	y
8	Last set of exit doors missing door operation decal	10/9/17	y	N
9	Touch bars at both sets of exit doors top bracket loose	10/9/17	y	y
10	Both HVAC return air filters dirty	10/9/17	y	y
11	Wiper saddles worn	10/9/17	y	y

Chart 5 – Fiscal Warranty Recovery

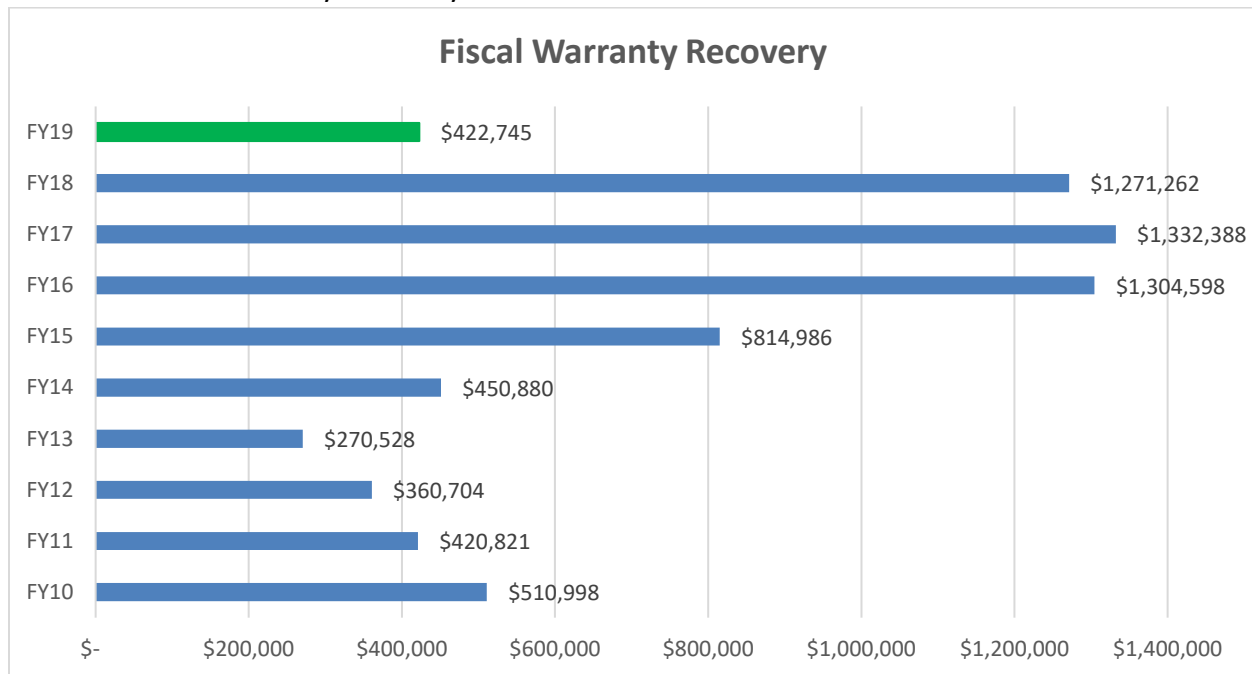


Chart 6 - Summary of FCEB Performance Compared to DOE/FTA Targets through Dec 2018

	Units	This Report	2016 Target	Ultimate Target
Bus lifetime	years/miles	8/ 157,367– 237,447	12/500,000	12/500,000
Power plant lifetime ^c	hours	2,460–31,210	18,000	25,000
Bus availability	%	79 (11/2018)	85	90
Fuel fills ^e	per day	1	1 (<10 min)	1 (<10 min)
Bus cost ^f	\$	2,500,000 ^g	1,000,000	600,000
Road call frequency (bus/fuel cell system)	miles between road calls	6,038/ 28,682	3,500/ 15,000	4,000/ 20,000
Operation time	hours per day/ days per week	7–14/ 5–7	20/7	20/7
Scheduled and unscheduled maintenance cost ^h	\$/mile	1.33	0.75	0.40
Range	miles	250 ⁱ	300	300
Fuel economy	miles per diesel gallon equivalent	6.65	8	8

Chart 7 – Fuel Cell Bus Hours and Miles

BUS NUMBER	FC HOURS	LIFE TIME MILES
FC4	24369	230,512.70
FC5	24535	232,300.30
FC6	24288	195,114.50
FC7	31210	215,308.60
FC8	23317	164,310.40
FC9	23747	203,890.60
FC10	26332	237,462.20
FC11	26912	234,293.80
FC12	*2460	223,621.20
FC13	15971	157,201.50
FC14	27350	231,814.30
FC15	22386	190,827.40
FC16	27,071	215,625.20
Fleet Total	297,488	2,732,282.70
Fleet Avg	24,791	210,175.59

*Fuel Cell replaced on 11/21/18 with 25,969 hours.