Foothill Transit

Maintaining ZEV Performance



Roland Cordero | Director of Maintenance & Vehicle Technology
rcordero@foothilltransit.org

Training Workforce Development

- Training included in OEM Contract
  - Technician training
  - Operator train the trainer
- Warranty
  - OEM Technician additional training
  - Technician/Warranty Tech cross training
- OEM suggested parts inventory
  - Store PMI parts i.e. coolant, filters
  - Fast-moving parts
- PMI of fuel cell parts on hours intervals

Foothill Transit

Bus Reliability and Availability

- 33 New Flyer XHE40 Fuel Cell Buses
  - 65% Availability
  - A123 Batteries
  - Ballard FC85 fuel cell
  - 65% Availability
  - Increased roadcalls

Foothill Transit

Bus Reliability and Availability

- 19 New Flyer XHE40 Fuel Cell Buses
  - 100% Availability
  - XALT Batteries
  - Ballard FCMOVE fuel cell
  - Fairly new in service

Foothill Transit

Managing Vehicle Performance

- Communication
  - Document events even under warranty(emails not text message)
  - Ask for weekly follow-ups
  - Data gathering of frequent failures
  - Demand OEM for parts availability
  - Rebuild parts versus purchasing new
  - Partner/sharing information with other agencies
  - Training Modules

Foothill Transit

Managing Vehicle Performance

- Monitor Fleet Performance
  - Roadcalls

Pomona Yard (FY2027)

	Total Miles	# Total Roadcalls	Roadcall KPI	HFC Roadcalls (battery/stall)	Roadcall KPI (no HFC)
July	538,852	56	**9,622**	12	**12,247**
August	526,074	60	**8,768**	20	13,152
September	519,191	61	**8,511**	19	**12,362**

HFC Roadcalls (FY2027) **removed orange highlighted*

Category	July 2026	August 2026	September 2026
Electrical Battery -Weak/Dead	4	13	6
Engine - Stalls/Stalled	7	5	10
Engine - No Start	1	2	1
Operator Seat	1	1	1
A/C - Air Conditioner	1		1
Air Pressure Low			2
Suspension - Bellows			2
Engine-Check Engine Lt. On			1
Fuel - Low Lt Indicator			1
Fuel System - Leak	1		
Suspension - Noisy		1	
Trans - No Shift		1	
W/C - Lift Gate			1
Total	**15**	**23**	**26**

Performance Standard	FY27 Target	Performance Payment
Miles between Mechanical Technical Road Calls	12,700 Miles between Technical Road Calls	*13,013 to 13,324 - $1,000*
		13,325 to 13,627 - $2,000
		13,638 or above - $3,000

Foothill Transit

How can we improve?

- Lower priced ZEBS
- Innovate – Fuel cell dominant buses?
- OEMs be proactive to avoid long OOS days
- More parts availability and faster delivery
- Open data sharing through OEM portal

Foothill Transit



Roland Cordero
Director of Maintenance & Vehicle Technology
rcordero@foothilltransit.org