



SFMTA

A photograph of a white and red Muni Light Rail Vehicle (LRV4) on a city street. The train is numbered 2021A and has 'MUNI' written on its side. It is pulling a passenger car. The background shows a city street with palm trees, traffic lights, and buildings under a cloudy sky. A 'FORT' sign is visible on the right side of the train.

Muni LRV4 Update

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July 23, 2019

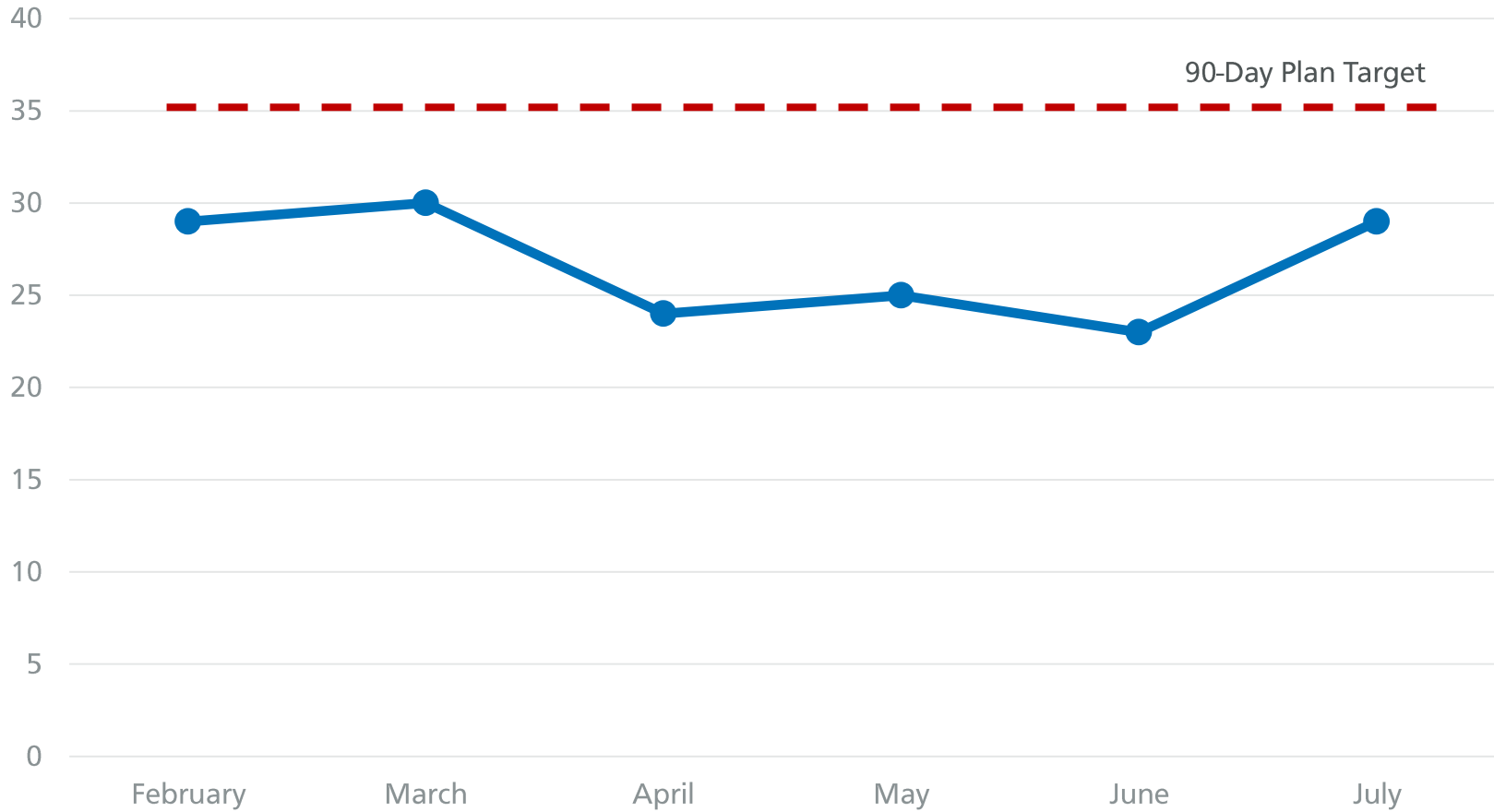
Status Update

- 66 vehicles delivered, 57 service-ready
- Door retrofits completed and all LRV4s are operating without restrictions
- Coupler repairs are progressing on target for end of July
- Siemens bears costs of all warranty repairs
- Availability has improved, but breakdowns continue to be too high



Fleet Availability

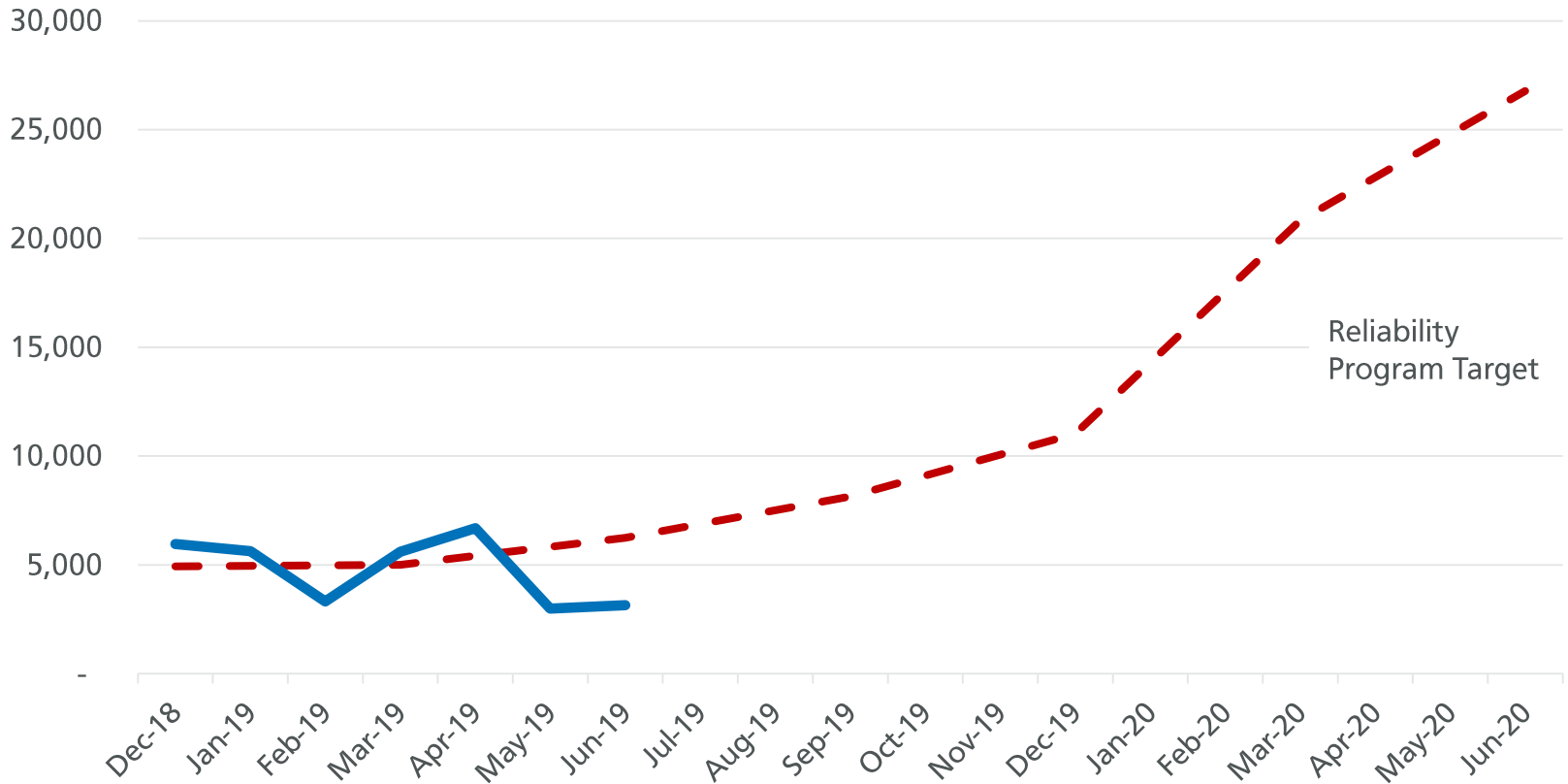
Vehicles Available for Service by Month



July data is preliminary and based on the first two weeks of the month

Reliability Program

Mean Distance Between Failures



Change Order Status

We have been collecting feedback from operators, maintenance, engineering and the public about all aspects of our new light rail vehicles since they first arrived in 2017

Operator

- Updated operator panel switches for easier use
- Larger monitors for camera feed
- Updates to passenger information system to improve usability

Maintenance

- Updates to brakes to reduce flattened wheels
- Changes to panel securements for easier access
- Updates in seat material to make more durable

Passengers

- Addition of transverse seats
- Lower seat height
- Updated seating design
- Increased places to hold, handholds at more heights
- Improved on-board announcements

Operator-Driven Improvements

Through regular meetings with the union and operator post-operation reports, we have identified the following items that we aim to address through change order or warranty

Improvements Made

- Single panel door sensitive edges
- Glare shield for monitor
- Upgrade screens to touch-screen

Improvements Confirmed

- Track iron holder
- Front door open switch to blue
- External panel self-closing design
- Flat spots/track brakes
- Step switch self-setting
- Step actuator and gap filler panel access improvement

Improvements Under Development

- Crew key design update
- Larger monitors for rear view—prototypes on property
- Operator door locking improvement
- Aisle view, Stepwell/farebox, front right side mirror

Next Steps: See You in September!



- Achieve 90-day plan performance improvements
- Project team working this summer to finalize Phase 2 package of changes
- Entering negotiations with Siemens to determine final elements and costs



2018B

Thank You

