



SFMTA
Municipal
Transportation
Agency

LRV4 Contract Modification 3: Presentation to MTA Board



August 16, 2016
SAN FRANCISCO, CALIFORNIA

The LRV4 Project has made remarkable progress since Notice to Proceed in September 2014

- Final aspects of the design are being completed
- Subsystems have been manufactured, inspected and shipped to Siemens' facility in Sacramento
- Production of the first 4 cars is well underway
- Vehicles will undergo extensive testing, prior to revenue service
- Siemens accommodated several design requests within Contract
- The changes presented here are outside of the Contract scope and reflect the total changes throughout the design phase

Production of the first four cars is underway at Siemens' plant in Sacramento.



Car 1 - Being prepared for testing



Car 2 - Car ready for floor installation



Car 3 - Car shell ready for inspection



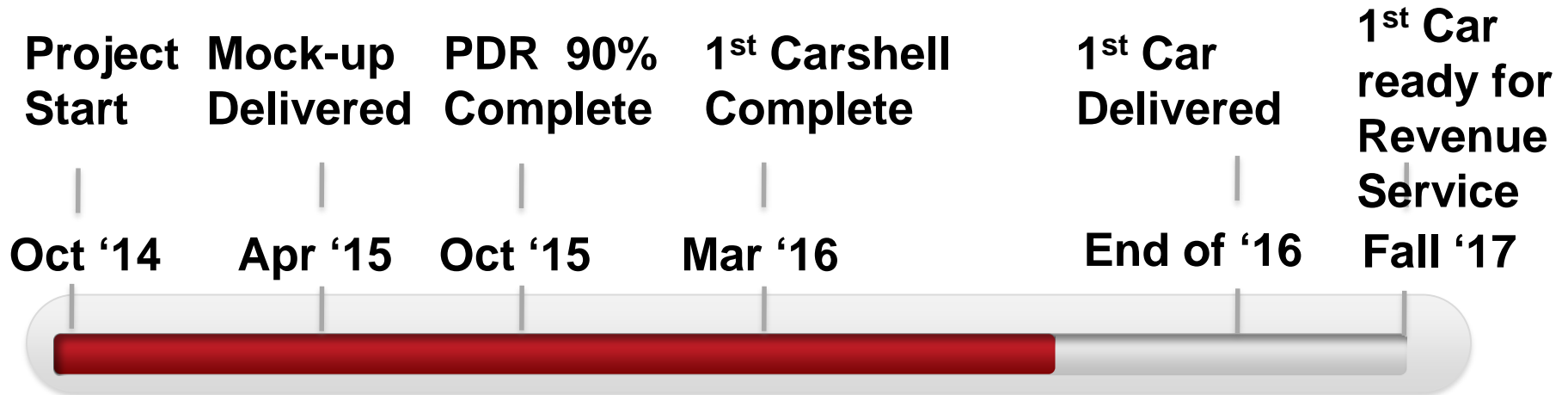
Car 4 - Underframe being welded

Scope and Schedule

The design changes proposed will enhance passenger experience and improve maintenance and operability

No	Description of Change	Requested by	Benefit
1	Independent Right Front Step Operation	Accessible Services	Easier level boarding at key stops, reduced life cycle cost of steps
2	Color Block for Destination Signs	Communications/ Accessible Services	Easier Wayfinding for passengers
3	CAD/AVL functional modifications	Operations	Allows seamless integration of new generation vehicle with CAD/AVL system currently being commissioned.
4	Leading Cab Train ID	Operations	Quicker train set up by operator prior to run
5	Handheld Radio Charger	Operations /Maintenance	Allows charging of personal radios while in cab
6	Expert Diagnostic Software	Maintenance	Faster/more in-depth trouble shooting by maintenance

Design changes do not substantially impact major project milestones



- Delivery of first car is delayed by 2 months
- Revenue Service start still scheduled for 4th quarter 2017
- Production rate will increase to recover schedule prior to end of first phase delivery of 24 cars

Conclusion

- Approval will allow execution of modification number 3
- New design features will improve customer service, facilitate proper systems integration, and aid future maintenance
- Modification ensures that the City maximizes the benefit from a 25-year investment in new LRVs

