



Broadband Wireless Communications Design

JPB Board of Directors
October 3, 2019
Agenda Item #5 (g)

The slide features a red background with a white Caltrain logo in the top left corner. The title 'Broadband Wireless Communications Design' is centered in large, bold, black font. Below the title, the text 'JPB Board of Directors', 'October 3, 2019', and 'Agenda Item #5 (g)' is displayed in a smaller black font. A faint image of a train is visible in the background.



Objective

Design a communication system for

1. Remote, real-time train diagnostics and other operational needs.
2. Provide on-board passenger WiFi service.

The slide features a white background with a red Caltrain logo in the top left corner. The word 'Objective' is written in bold black font. Below it, the text 'Design a communication system for' is followed by a numbered list of two items: '1. Remote, real-time train diagnostics and other operational needs.' and '2. Provide on-board passenger WiFi service.' A faint image of a train is visible in the background.



Background

- Several attempts to deliver WiFi service to passengers on-board Caltrain in the past.
- Technical solutions were either too expensive or did not meet all of JPB's requirements.
- Leverage off the PTC fiber and EMU vehicles.



Contract Scope of Work

1. Define requirements for the wireless communications system.
2. Develop a design to meet all the requirements.
3. Develop a construction cost and schedule estimate.

Final Deliverable:

Comprehensive technical specifications and design to be included in a Request For Proposal to implement the Broadband Wireless Communication System.



Future Steps

1. Have a design package ready for a Request For Proposal by the end of June 2020.
2. Select a contractor to install the on-board equipment and wayside equipment in 2021.



Questions?