

CalMod Local Policy Maker Group (LPMG)

Thursday, September 26, 2013
6:00 PM – 7:30 PM
SamTrans Offices - Bacciocco Auditorium 2nd Floor
1250 San Carlos Ave., San Carlos

Agenda

- 1. JPB Staff Report
- 2. Information/Discussion
 - a. Level Boarding Presentation (Attachment A)
 - b. Communications Based Overlay Signal System (CBOSS) Positive Train Control (PTC) Project Update (Attachment B)
- 3. Public Comments
- 4. LMPG Member Comments/Requests
- 5. Next Meeting: November 28 @ 6:00PM, SamTrans Office Auditorium



Memorandum

Date: September 23, 2013

To: CalMod Local Policy Maker Group (LPMG)

From: Marian Lee, CalMod Executive Officer

Re: Caltrain Level Boarding

Level boarding allows passengers to get on and off the train from the platform without stepping up or down. Examples of level boarding in the San Francisco Bay Area include

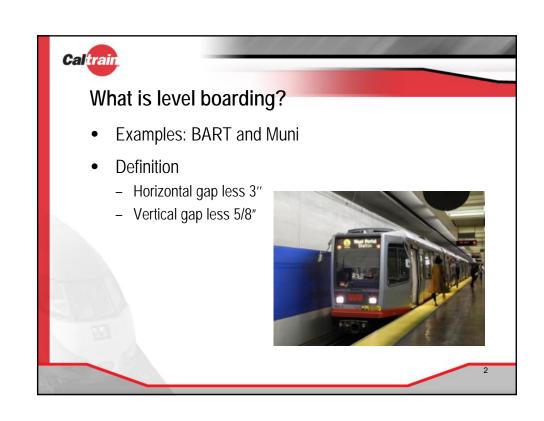
BART and MUNI.

Currently, Caltrain does not have level boarding but it is a desired system improvement that requires funding. Level boarding benefits include safety enhancements, operating efficiencies and passenger convenience.

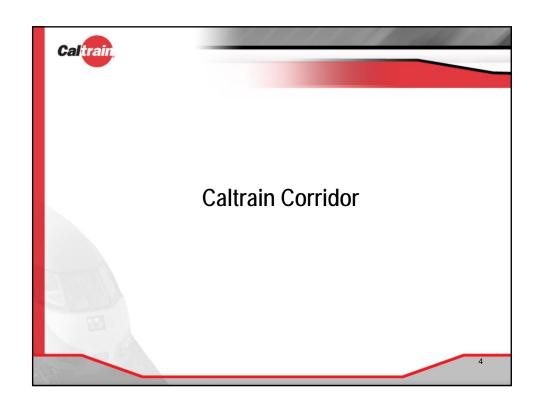
It is now timely to begin discussing strategies for achieving level boarding in the long term. Those strategies will influence the development of vehicle specs for the procurement of Electric Multiple Units (EMUs) included in the Caltrain Modernization program.

Staff will present the attached power point presentation to the LPMG on the topic of Caltrain level boarding.

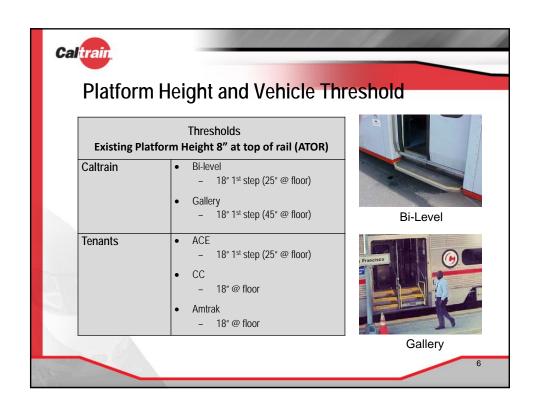




Level Boarding Important to Caltrain Safety enhancements Operating efficiencies Passenger convenience ADA compliant



Stations / Platforms • 33 stations (SF to Gilroy) • Shared stations / platforms • Caltrain and tenants - Altamont Corridor Express (ACE) - Capitol Corridor (CC) - Amtrak - Freight

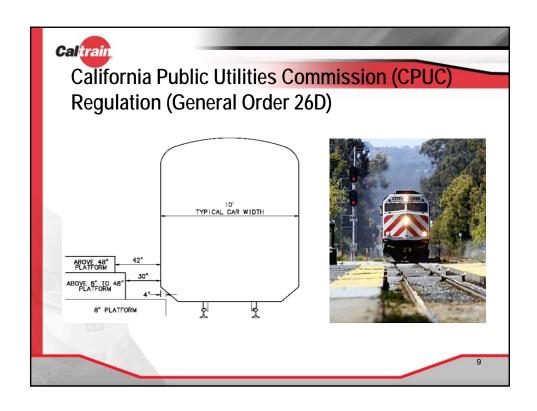




Cal train

California Public Utilities Commission Regulation (General Order 26D)

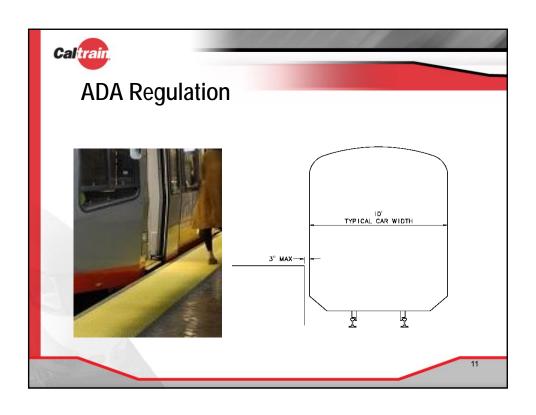
- Tends to push platform and vehicle apart
- Protect freight and passenger operations
- Creates clearance envelope
- Govern train/platform interface



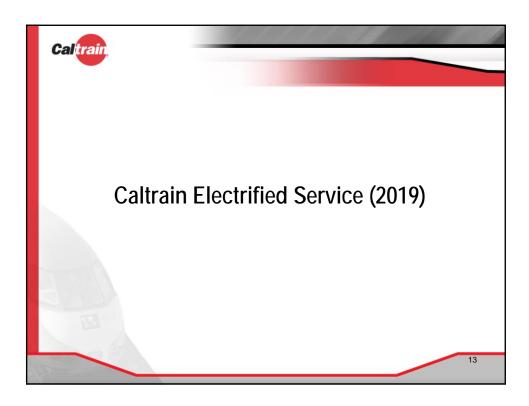


Federal Americans with Disabilities Act (ADA)

- Tends to bring platform and vehicle together
- Provide level boarding where practicable
- Waivers when shared with freight
- Station improvements can trigger level boarding requirement







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Electrified Service Context

- Maximize capacity and support growing ridership
- Utilize existing stations and tracks
- Continue ADA and CPUC compliance
- Service
 - Electric service from SF to SJ
 - Continued diesel for Gilroy service
- Vehicles
 - Convert from diesel to EMU fleet
 - Utilize remaining life of diesel fleet

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Electrified Service Context, cont.

- Continued tenant access
 - ACE, CC, Amtrak
 - Freight
- Support future HSR service
- Consider other planned services
 - Coast Daylight
 - Dumbarton

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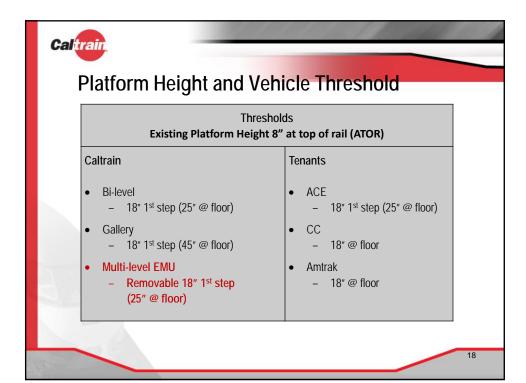
EMU Design Considerations

- Service proven
- Existing design / safety standard approved
- Compatible with existing fleet
- Maximize capacity
- Maintain/Improve current customer experience
- Future station platform implications
 - Caltrain level boarding
 - Shared platforms with tenants

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Service Proven EMU Options

- Single Level EMU
 - Floor threshold 46" to 51" ATOR
 - Capacity 80 100 passengers per car (less than today)
- Multi-Level EMU
 - Floor threshold ~25" ATOR
 - Capacity 110 130 passengers per car (similar to today's)

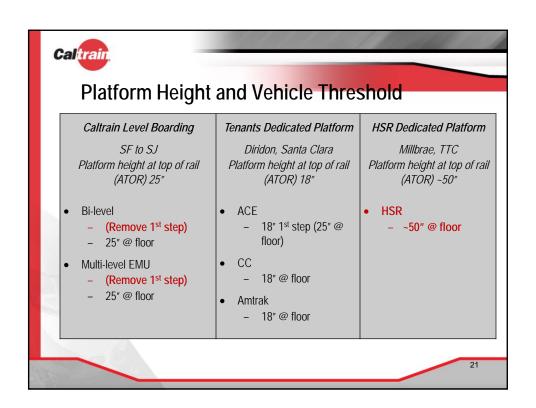




Caltrain,

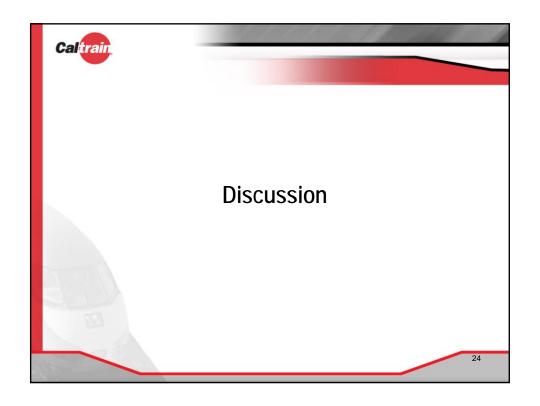
Caltrain Level Boarding Approach

- Identify cost / funding
- 25" platforms at 27 Caltrain stations (SF to SJ)
- SJ to Gilroy TBD
- Dedicated tenant platforms
- Phasing consideration
- CPUC waiver for regulation compliance











Memorandum

Date: September 23, 2013

To: CalMod Local Policy Maker Group (LPMG)

From: Marian Lee, CalMod Executive Officer

Re: Communications Based Overlay Signal System (CBOSS) Positive Train Control

(PTC) Project Update

The Communications Based Overlay Signal System (CBOSS) Positive Train Control (PTC) project is one of the projects identified in the $^{\circ}$ \$1.5 billion Caltrain Modernization Program.

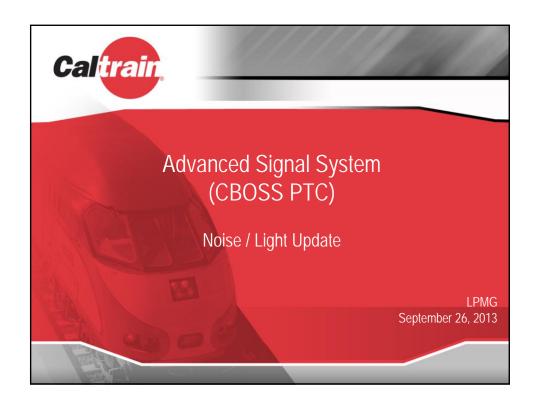
It is an advanced signal system project that will improve the safety of the Caltrain corridor as well as provide performance enhancements needed for improved Caltrain service and the future Caltrain/high-speed rail blended system.

The LPMG received an update on the CBOSS PTC Project in March and August 2013. At the August LPMG meeting, members requested more information on the light and noise associated with the equipment that would be used during installation of the fiber and the data communications subsystem.

Caltrain staff will present the attached power point presentation at the September LPMG meeting.

The City/County Staff Coordination Group (CSCG) is receiving briefings on project progress. In July and August, Caltrain staff met with each of the 17 cities along the Caltrain corridor to coordinate local agency permits and tailor outreach for each jurisdiction.

Coordination will continue throughout the CBOSS PTC project.





CBOSS PTC - What is it?

- Communications Based Overlay Signal System Positive Train Control
- Project Requirements
 - Includes federal mandate (PTC)
 - Improves Caltrain performance
- Project Partners
 - Federal Railroad Administration (FRA)
 - Union Pacific (UP)
 - California High Speed Rail Authority (CHSRA)
- Needed for Blended System



CBOSS PTC Requirements

• PTC

- Prevent train-to-train collisions
- Prevent over speed derailments
- Prevent incursions into established work zones
- Prevent movement through a misaligned switch
- Interoperability

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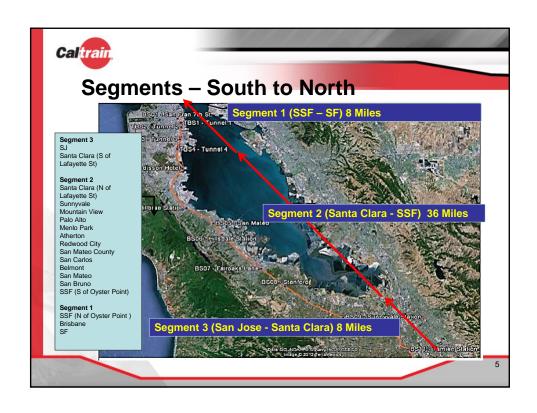
- Enhanced crossing safety / performance
- Improved headways and operational flexibility
- Enforcement of scheduled station stops
- Schedule management
- Employee In Charge

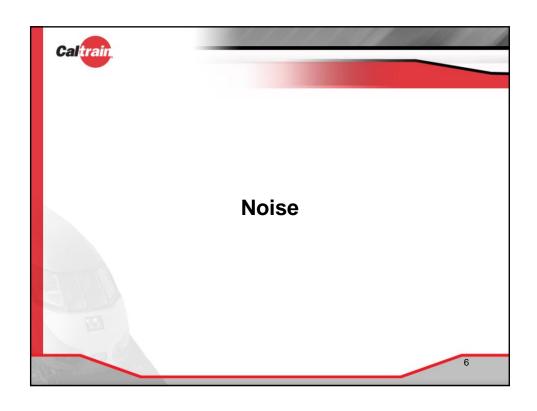
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Project Cost & Milestones

Description	Cost (in millions)	Milestones
Project Planning and Procurement	\$5	2010 - 2011
Phase 1 - Critical Design	\$25	2012 – 2013
Phase 2 - Final Design, Data Communications Subsystem & Fiber Backbone Installation	\$51	2013 – 2014
Phase 3/4 - Installation, Testing, Commissioning	\$150	2014 – 2016 (Revenue service Oct. 2015)
Total	\$231	





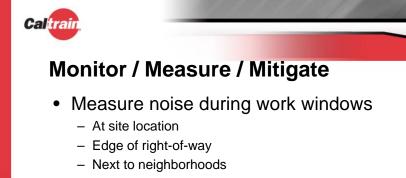


Noise Examples

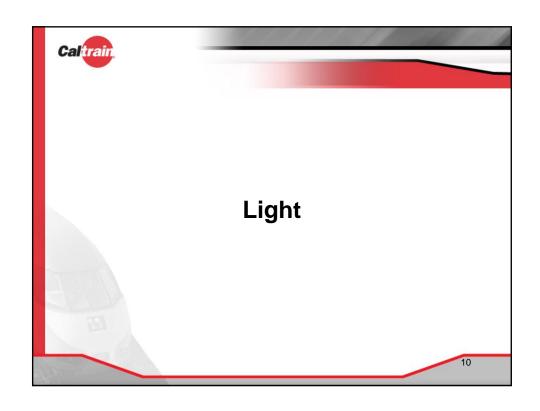
- Whisper (30 dB)
- Conversational speech (60 dB)
- Noisy restaurant (75 dB)
- Freeway traffic (90 dB)
- Chain saw (120 dB)
- Jet plane (148 dB)

Note: The human ear does not judge sound in absolute terms, but instead senses the intensity of how many times greater one sound is to another. A decibel is the basic unit of sound level.





- 16 working days thus far
 - Several nights by residential buildings
 - No complaints (to date)
- Mitigate as needed / appropriate





Light Examples

- Provides safe environment for workers
- Federal / State lighting requirements
- Lux examples
 - Direct sunlight ranges: ~32,000 to 100,000
 - TV studio lighting: ~ 1,000
 - A bright office: ~ 320 to 500
 - Building corridors: ~100
 - Full Moon night: ~1

Note: Lux is a standardized unit of measurement of the light intensity

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Installation Light Equipment





Light reading from field:

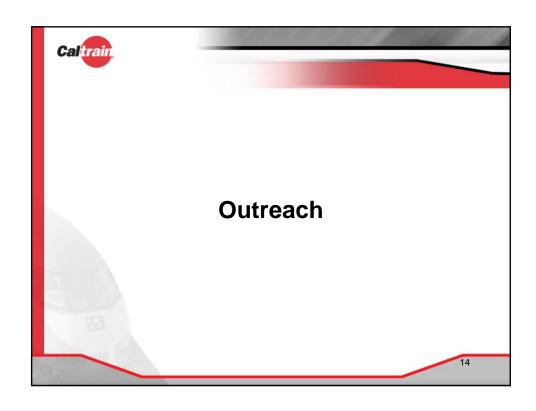
Lux: 350-450 at site; 196-228 25' away

Note: Lights required by state and federal law. Light generator noise 73dB.

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Monitor / Measure / Mitigate

- Ensure equipment functioning properly
- Measure lux with a light meter
- Position equipment
 - Towards work area
 - Away from roadways, residents, and businesses
- Mitigate as needed / appropriate



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Project Contact Info

- Dedicated Project Line: (650) 508-6499
- Email: caltrainptc@samtrans.com
- Website: www.caltrain.com/CBOSSPTC
 - Fact sheets, presentations, notices
 - Subscription for installation updates
- Social Media: @caltrain_news
 - Installation updates

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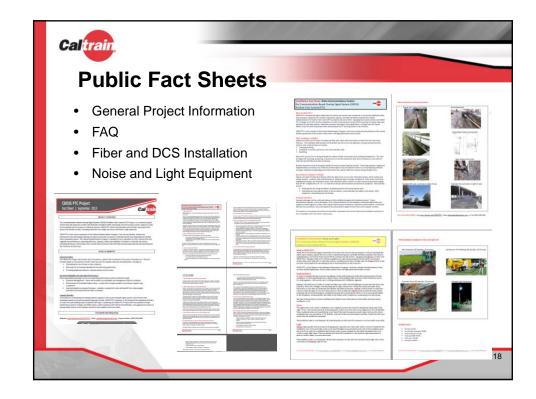
Information Sharing

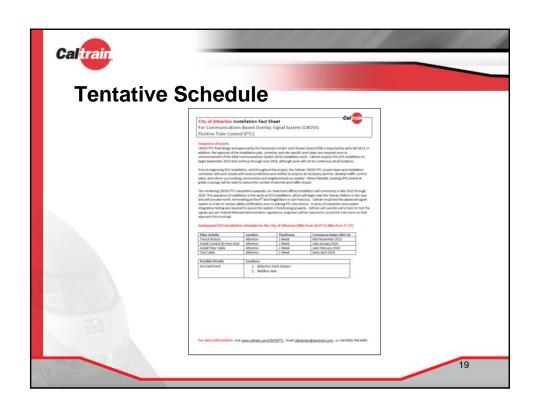
- · Caltrain website
- Project hotline line and project e-mail
- Social media
- CBOSS PTC subscription notification list
- Caltrain construction e-notice
- CalMod e-newsletter
- Direct mailers prior to installation
- Local jurisdiction website (if requested)



Stakeholder Outreach

- City/County Staff Coordination Group (4 meetings)
- Local Policy Maker Group (3 meetings)
- One-on-One Meetings (17 cities / 3 counties)
 - Fact sheets
 - Tentative schedules
 - Tailored outreach
 - Communication material review
- Community Meetings (as requested)
 - San Bruno, Palo Alto, Atherton
 - RWC Chamber, Menlo Park Chamber
 - PFRUG
 - North Fair Oaks Community Council









CalMod Local Policy Maker Group (LPMG) Summary Meeting Notes for August 22, 2013

The following are summary meeting notes. The purpose of these notes is to capture key discussion items and actions identified for subsequent meetings.

JPB Staff Report

Staff provided an update on:

- The owner's rep procurement activities;
- Environmental technical studies; and
- An update on Jerry Hill's bill related to Prop 1A funding for the Caltrain Modernization Program.

Information/Discussion Items

1. Fourth and King Station/Yard Reduction/Removal Feasibility Assessment

The LPMG received a power point presentation on the 4th and King Station/Yard Reduction/Removal Feasibility Study.

At the request of the City/County of San Francisco to support local development efforts, Caltrain has been studying the feasibility of reducing and/or removing the existing 4th and King Station/Yard which currently functions as the San Francisco Caltrain terminus station.

Two reduction options and a removal option were identified. This technical analysis focuses on the two reduction options. The removal option is a significant effort that needs a separate study.

Preliminary findings show that Option A with street level development along Townsend and 4th streets and podium style development over an efficient reconfigured station/yard may support today's operations and electrified service in the future. Option B, which assumes Option A development plus additional street level development along King Street, can only partially support today's operations and electrified service in the future resulting in the need for an off-site facility located within the City/County of San Francisco. Final steps to conclude the study include cost estimation for improvements at the station and operation / maintenance changes.

With completed technical work, there will be an assessment as to if these options should be included in the Peninsula Corridor Electrification Project (PECP) EIR as requested by the City/County of San Francisco.

This item will be brought back to the LPMG for further discussion.

Communications Based Overlay Signal System (CBOSS) Positive Train Control (PTC) Update

The LPMG received a power point presentation on the installation work associated with the Communications Based Overlay Signal System (CBOSS) Positive Train Control (PTC) project. The presentation included detailed descriptions of the installation tasks and timeframes for those activities.

Several LPMG members asked for more information about the noise and light that would be generated by the equipment used for the project. Staff committed to providing an update on those items at the September meeting.

Public Comment: A public speaker expressed doubt about the performance attributes of the CBOSS PTC project. The project is moving to final design and installation with all of the performance attributes identified.

3. Peninsula Corridor Electrification Project Delivery Method

The LPMG received a power point presentation on the Peninsula Corridor Electrification Project (PCEP) delivery options. The presentation included staff recommendation for using design build (DB) and best value for the electrification project including vehicle procurement. It also described the due diligence performed by staff to land on the recommendation.

Questions and discussion were solicited to inform the September JPB meeting where the item would be presented for action.

Public Comment: A public speaker expressed DB support for electrification and proposed Design Build Finance Maintenance (DBFM) for vehicles. DBFM was found by staff to not best meet the project objectives at this time.

Public Comments (after all information/discussion items were complete)

A speaker from Peninsula Freight Users Group (PFRUG) expressed support for the Caltrain Modernization Program and requested information about impacts on freight operations from CBOSS PTC installation. Following the meeting, staff confirmed that there would be no impacts to freight operations. The information was shared with PFRUG.