Caltrain Electrification Project Update

Peninsula Corridor Joint Powers Board

February 1, 2024

Agenda Item #12





Project Highlights



Project Highlights

- Schedule: No change to revenue service date fall 2024
- Budget: No change to project budget \$2.44B
 - \$352K December 2023 draw from "\$50M Shared Risk Pool"
 - No December 2023 draw from "\$40M Project Contingency"
- Construction
 - Overhead Contact System Remaining work Completion in Early February
 - OCS Sectionalization Testing Complete San Francisco to Mountain View
 - Short Circuit Testing Scheduled for February 2024 Dates Approved by PG&E
 - Live Runs Scheduled for March 2024
- Electric Trains
 - Fourth Electric Trainsets Completed 1,000-Mile Test
 - Six Trainsets On-Site
 - Next Two Trainsets Expected February 2024

Safety and Security

Time Period	Reportable Injury Rate			
January 1 to December 31, 2023	1.88			
Since Project Start (2017)	1.95			

Note: National Average Reportable Injury Rate is 2.4.

- One reportable injury for December 2023
- Project Safety Awareness trainings ongoing for Local Fire and Police Departments (1,000 emergency responders trained to date)
- Completed 25kV training for all TASI and tenant railroad staff
- Development of emergency responder safety presentation for local first responders



Project Contingency and Shared Risk Pool

Item	Amount	Drawn in December 2023	Drawn To Date	Amount Remaining
BBII Shared Risk Pool	\$50.00M	\$0.35M	\$15.40M	\$34.60M
Project Contingency	\$40.00M	\$0.00M	\$32.11M	\$7.89M
Total	\$90.00M	\$0.35M	\$47.51M	\$42.49M



Top Risks

- Contractor Quality Control and Quality Assurance
- Theft of Impedance Bonds Cables
- Contractor Overhead Contact System Productivity
- Traction Power Energization and Short Circuit Testing (TPS-1)
- Timely Completion of Integrated Testing and Live Runs



Service Changes and Customer Experience



March Weekend Service Changes

Weekends: March 2-3, 9-10, 16-17

- Service changes to support electric train test runs between San Francisco and Mountain View
- Morning Service (Significant Impacts):
 - No Caltrain service between San Francisco and Mountain View (Approximately 7am to 1pm)
 - Replacement bus bridge provided at high ridership stations:
 - San Francisco, Millbrae, Hillsdale, Redwood City, Palo Alto, and Mountain View
 - There will be no replacement bus or train service at other stations between San Francisco and Mountain View. Alternative transit suggestions provided.



March Weekend Service Changes

Weekends: March 2-3, 9-10, 16-17

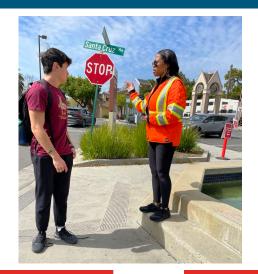
- Mid-Day Service (No impacts)
 - Regular Northbound Service Resumes with Train #237 at 12:12 p.m.
 - Regular Southbound Service Resumes with Train #236 at 11:58 a.m.
- Evening Service (Some impacts)
 - Southbound Train #280: Departs 30 minutes prior to regular schedule at 10:28pm
 - Last Northbound Train #281 (11:05pm): Canceled. No replacement bus service
 - Last Southbound Train #284 (12:05am) Canceled. No replacement bus service

LAST BUS BRIDGING OF THE PROJECT!



Customer Communication

- Web/Mobile
 - Landing page: caltrain.com/status
 - Caltrain Mobile App Alerts
 - Social Media
 - Nextdoor.com Posting
 - Website & 511 Transit Alerts
- Stations/Onboard
 - Station Signage (Notification and Wayfinding)
 - Train Seat Drops
 - Station Ambassadors
 - Station Audio Announcements
- Press Release
- Transit Alternatives List





NOTICE

TEMPORARY WEEKEND SERVICE CHANGE

MARCH 2 to MARCH 17, 2024

NO MORNING TRAIN OR BUS BRIDGE SERVICE AT THIS STATION FOR

NORTHBOUND Trains #221, 225, 229 & 233
Regular Northbound Service Resumes
at 12:12 pm from San Jose Diridon

SOUTHBOUND Trains #224, 228 & 232 Regular Southbound Service Resumes at 11:58 am from San Francisco Southbound Train #680 Departs at 10:28 pm

TRAIN SERVICE CANCELED

Northbound Late Night Train #281 Southbound Late Night Train #284

Please use alternate transit options near these stations to complete your journey or board the train at a station with a bus bridge in place.

or information, visit www.caltrain.com/status





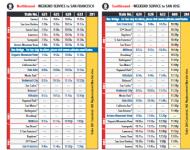


TEMPORARY WEEKEND SERVICE CHANGE

MARCH 2 to MARCH 17, 2024 MORNING BUS BRIDGE

There will be NO train or bus bridge service for these trains at 22rd St., Bayshore, So. San Francisco, San Bruno, Broadway, Burlingame, San Mateo, Hayward Park, Belmont, San Carlos, Menlo Park, California Ave, and San Antonio stations. Regular Service Resumes with Northbound Train #237 at 12:12 pm

Regular Service Resumes with Northbound Train #237 at 12:12 pm Regular Service Resumes with Southbound Train #236 at 11:58 am



For information, visit www.caltrain.com/statu

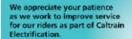
Caltrain.

WEEKEND SERVICE SHUTDOWNS IN EFFECT!

INTERRUPCIONES DEL SERVICIO
DE FIN DE SEMANA

周末服务暂停

Check status: CALTRAIN.COM/STATUS



Customer Service: 1.800.660.4287 Weekdays: 7 am - 7 pm Weekdays: 8 am - 5 pm



Electric Train Public Tour & 160th Celebration San Mateo County Coming Spring 2024

















Upcoming Board Items



Upcoming Board Items

Monthly Updates on Construction Progress and Service Changes



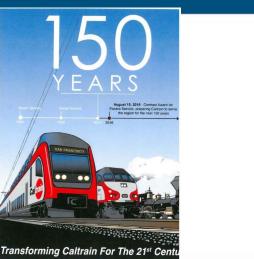
February 1, 2024

Caltrain Board of Directors Update - DRAFT









Focus Areas

- ➤ Continue viewing everything thru the Zero Harm lense Improving RIR 1.68 2023, 1.66 Job to Date
- OCS Production Regulation
 - Main Line Regulation Complete Ready for SC Testing
 - > SF Station and Yard to complete 51 Regulations Remaining
 - > Sectionalization for Main Line Complete (Exception Guadalupe This Weekend)
- Traction Power Stations and WPCs
 - > Short Circuit Test February 2024
 - SCADA Testing Ongoing Complete January
- > Training Schedule
 - ➤ OCS Complete
 - ➤ Signals Complete
 - > Traction Power February 2024
- Punchlist Execution
 - > 80% of the areas walked & punchlist established
 - > 48% punchlist items complete
- Closeout Execution
 - > As-Built 84% complete submitted to the EOR for redline
- Measuring what we do every day



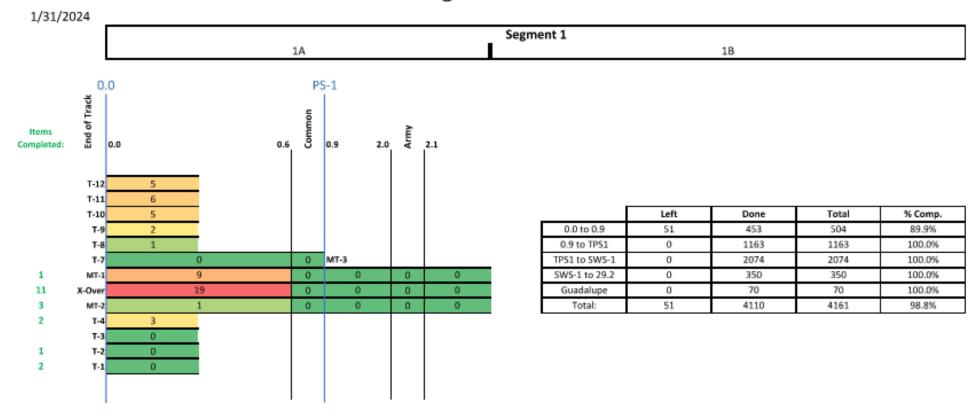
Current Overall OCS

Balfour Beatty Infrastruc							
Caltrain Peninsula Corridor Elec	trification	Project					
Construction Progress Tracker					Wee	k Completed	55
						Updated	1/22/2024
						·	
			Total				
			Quantity		Actual		
		Job to Date	Remaining	Planned	Installed	Remaining	Remaining
	Total	%	Starting	Work from	from Week	Quantity to	Quantity
Commodity	Quantity	Complete	Week 41	Week 41	41	Install	Planned
OCS Completion items & Regulation							
Now includes 52 Reg at Guadalupe	5,815	98.78%	877	953	859	71	71
Panning	95	80.00%	95	96	78	19	19
Loop Testing	68	80.88%	68	62	49	13	13
High Pot testing	92	71.74%	92	87	61	26	26
Sectionalization Testing	4	75.00%	4	4	3	1	1
Feeder & Static Wire Assemblies	4,855	100%	12	12	12	-	-
Messenger Wire (Guadalupe Bridge)	771,077	100%	256,576	2,571	2,571	-	-
Contact Wire (Guadalupe Bridge)	782,985	100%	272,762	7,009	7,009	-	-
Feeder Wire (Guadalupe Bridge)	486,189	100%	122,047	2,192	2,192	-	-
Static Wire (Guadalupe Bridge)	604,799	100%	108,990	1,982	1,982	-	-
		90.64%					



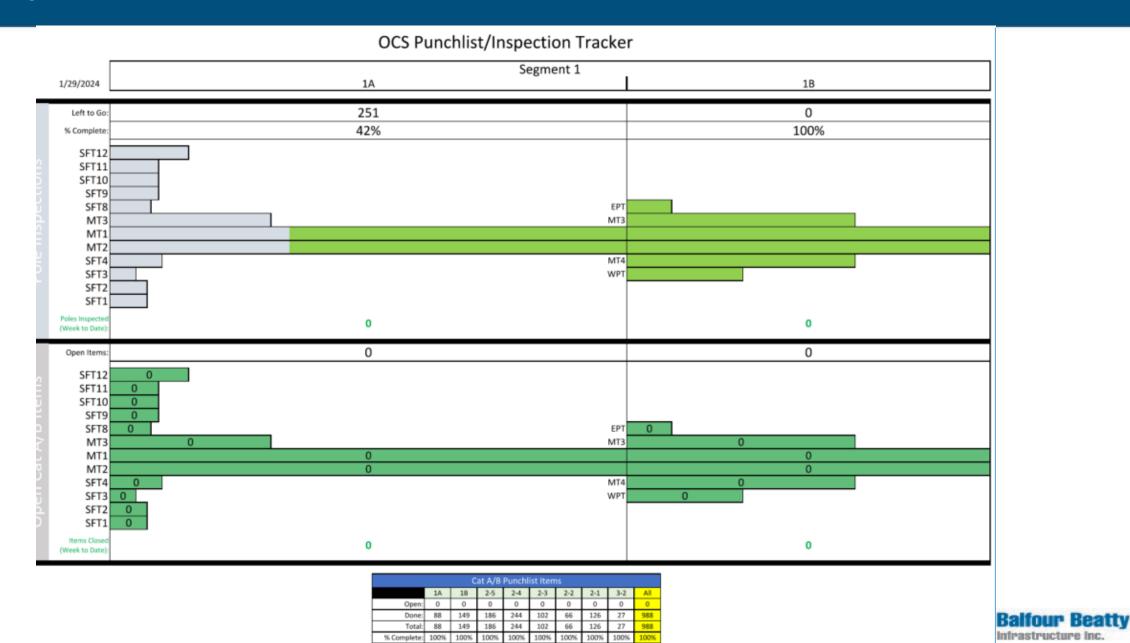
Regulation – SFO Station

OCS Regulation Tracker



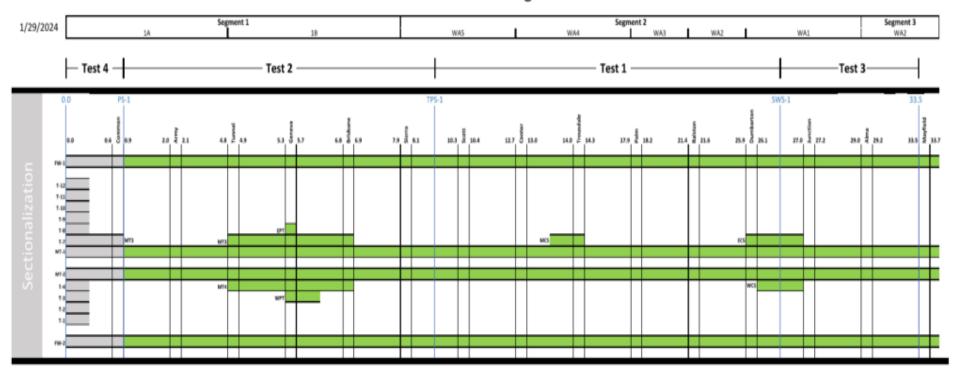


Category A & B Punchlist Items



Sectionalization Main Line

Sectionalization Testing Tracker





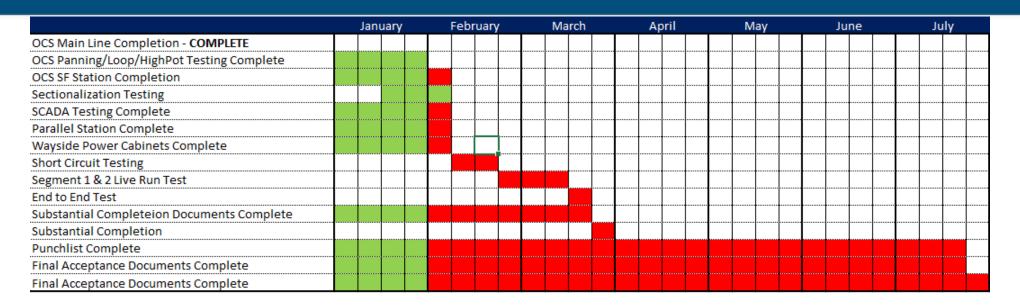
Current Short Circuit Testing and Live Run Testing Plan

SC Test	Track	Teams @ MP	Revised Dates	Sub Station	Limits
Test 1	MT 2	45.24	2/23/2024	TPS 1	1.1 to 45.24
Test 2	MT 1	26.2	2/9/2024	TPS 1	TPS 1 to 26 Mp
Test 3	MT 2	1.1	2/17/2024	TPS 2	TPS 2 to 1.1
Test 4	MT 2	26.2	2/16/2024	TPS 2	TPS 2 to 26.2
Test 5	MT 2	38.61(PS 6)	2/10/2024	TPS 2	TPS 2 to SWS(26.1)

Note: The Short Circuit Testing dates are confirmed by PG&E



Overall Path To Completion



No Changes to Schedule from December 7th update



What are the action items to ensure Substantial Completion?

> What gives us confidence in the path to substantial completion

- > Regulation on the Mainline is complete. This is what is needed for SC Testing **Done**
- > Crews on track with Cat A & Cat B Punchlist items **Done**
- > Sectionalization Main Line Done
- > 90-degree curve solution in place and tracking for completion Delayed Materials arrived 1/29/2024
- > Traction Power SCADA Testing Tracking
- ➤ Short Circuit Readiness Meetings Internal & Joint weekly bi-weekly meetings
- > SFO Station has no bearing on Sectionalization Testing & Short Circuit Testing

> Are there still risk to the plan?

- > Yes
 - ➤ Weather Paying OCS crews triple time to work thru the rain events
 - ➤ Successful Short Circuit Testing
 - ➤ Walking out and establishing the Cat C's punchlist in the remaining areas
 - > Closing out every piece of paperwork Time to do it, time to review it, time to close it



FOR MORE INFORMATION

WWW.CALTRAIN.COM

