

# Rail Activation Management Program (RAMP) Update

**TOPS Committee**

**April 24, 2024**



# Agenda

- **Schedule**
- **Scorecard**
- **Top Risks**
- **Training Status**
- **Emergency Preparedness**
- **Recent Activities**
- **Upcoming Activities**

# Schedule

# Rail Activation Schedule

**Countdown to Revenue Service: 152 days**

## Anticipated Rail Activation Schedule Tasks and Completion Periods

Activity	Mar 24	Apr 24	May 24	Jun 24	Jul 24	Aug 24	Sep 24	Oct 24	Nov 24	Dec 24	Descriptions
Balfour Beatty Substantial Completion			5/8								
System Integration				6/1							Testing leading up to Pre and Post Substantial Completion
Operational Readiness					7/1						All activities that Operations must complete to operate trains
Operational Drills					7/15						Training & Practicing for efficient Operations
Soft Launch						8/3	9/22				Gradually replacing Diesel Locomotives with EMU's
Project Completion Celebration and Revenue Service Date							9/23				Project Outreach (VIP & Public Celebrations)
Post Revenue Service									11/29		All activities leading up to Pre and Post FFGA

Expected Finish Dates shown in red (above).



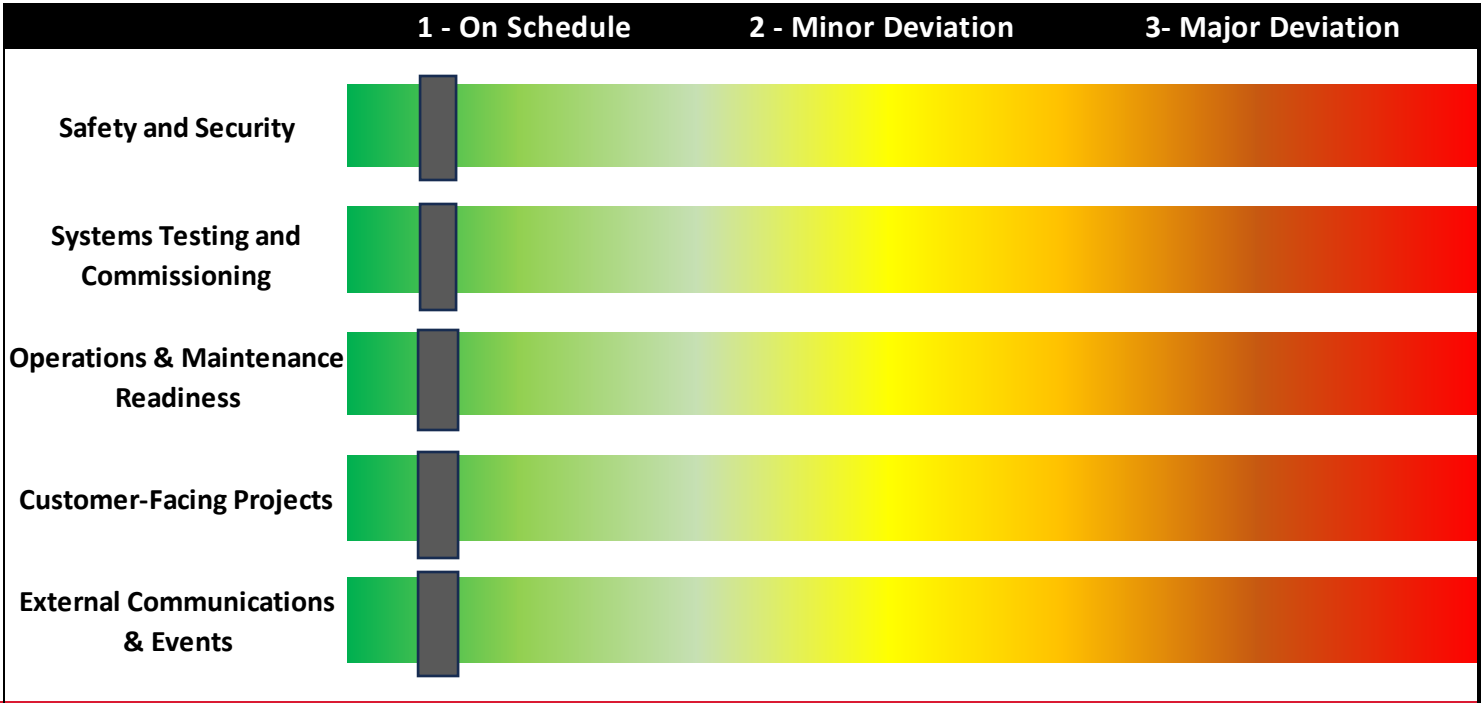
# Scorecard Update

# Rail Activation Management Program (RAMP)

- RAMP reporting identifies critical activities essential for a successful public launch
- The RAMP Scorecard includes the following information:
  - Safety and Security
  - Systems Integration and Testing
  - Operations & Maintenance Readiness
  - Customer-Facing Projects
  - External Communications and Events

# RAMP Scorecard – Heat Map

HEAT MAP	
Status Reporting Legend	
<b>1 - On Schedule</b>	Item is on schedule and there are no quality/effectiveness issues of concern.
<b>2 - Minor Deviation</b>	There is a minor deviation from the schedule with a recovery plan in place; and/or, There are minor quality/effectiveness concerns with a plan in place to address them.
<b>3- Major Deviation</b>	There is a major deviation from the schedule, recovery will be a challenge; and/or, There are major quality/effectiveness concerns that will be difficult to address; and, Executive support or decision-making may be required.



# RAMP Scorecard – Go / No-Go List

GO   NO-GO LIST	
Status Reporting Legend	
<b>Go</b>	Ready for Revenue Service
<b>No-Go</b>	Not Ready for Revenue Service

Theme	Criteria for Start of Service	Status	Comments
<b>Safety</b>	Fulfilled all system safety and security certification requirements	No-Go	
	All employees adequately trained	No-Go	
<b>People</b>	Sufficient management capacity and capability to operate system	No-Go	
	Staff and stakeholders: Fully prepared and mobilized	No-Go	
<b>Training</b>	OCS safety awareness provided to emergency response personnel	Go	
	Training programs implemented for Caltrain and TASI employees	No-Go	
<b>Stations</b>	Completed all station walks and critical punch list work	No-Go	
<b>Trains</b>	All 16 EMUs delivered and burned in	No-Go	14 trains plus 2 spares
	Successful completion of Broadband wireless project	No-Go	
<b>Systems</b>	All system integration documentation and testing complete	No-Go	
	System performance during test runs is sufficiently robust/resilient	No-Go	
<b>Operations</b>	Successful completion of Pre-Revenue Operations planning	No-Go	
	Standard and emergency operating procedures have been updated	No-Go	
<b>Maintenance</b>	Warehouse space secured to store spare parts and special tooling	Go	
	Completion of necessary CEMOF improvements to service mixed fleet	No-Go	
<b>Energy</b>	Electricity procurement strategy finalized	No-Go	



# Rail Activation Risks

# Top Risks

Rail Activation Risks	Electrified Operations Risks
Project delays leading to compressed timeline for start-up activities and O&M readiness	Ongoing theft issues after beginning passenger service
Timely hiring of critical positions to support operations and maintenance of Traction Electrification System	Grade crossing incursions and vehicle collisions
Translating institutional knowledge from project staff to Caltrain employees	Limited number of spare EMUs for the start of revenue service
Common Risk Items	
<ul style="list-style-type: none"><li>• Long-lead times for procurements, spare parts, tools and equipment</li><li>• Storm/tree damage on the Caltrain Right-of-Way</li></ul>	

# Training Update

# Training Status

- OCS and EMU first responder training completed
  - 92 classes given to 836 emergency responders
  - Additionally, trained 242 third party/tenant railroad employees
- Title 49 CFR Part 243 Plan Updates
  - Designates the minimum training qualifications for each occupational category of employee
  - Includes Electrified Operating Instructions, 25kV awareness

# Emergency Preparedness

# Passenger Train Emergency Preparedness Plan

- **PTEPP** – controlling document to be used during emergencies
  - Governs Caltrain's internal response to critical emergency situations and its coordination with external agencies and customers in the event of an emergency
  - Subordinate to the direction and procedures of public law enforcement and emergency responders managing an incident
  - Signatories: Caltrain, TASI, UPRR, ACE, Capital Corridor, Amtrak

# Operating Hazard Analysis

- **OHA** outlines potential electrification hazards, existing mitigation measures, and additional recommended mitigation measures
- Also tracks resolutions for hazards, verified by Safety Department
- Examples include:
  - Hazards related to battery handling
  - Tree branches hanging over ROW
  - Step and touch potential
  - Down wires

# Contingency Drills

- Joint tabletop exercise with BART planned for **June 11** to simulate response to a derailment near a tunnel
  - Includes vehicle and wayside components
- Additional Traction Power Failure tabletop planned to address:
  - Failures of an electrical component, power surge, physical damage to the TES, loss of a substation, etc.



# Recent and Upcoming Activities

# Recent Activities

- Weekly updates to risk register – grading and mitigations
- Additional trainsets delivered and burn-in ongoing
- Fleet disposition – initial set of gallery cars moved off property
- Tested on-board audio and visual announcements
- Held final workshop on pre-revenue operations plan
- OP-54 documentation (readiness for service review)
- Verification of requisite on-call contract vehicles to support electrified service
- Continue to refine Rail Activation schedule and track progress

# Upcoming Activities

- Station enhancements
- FY25 budget adjustments
- Energy procurement strategy update
- System integration activities (PCEP)
- Contingency drills and tabletop exercises
- O&M plan update
- San Mateo County public train tour – May 11 in San Carlos
- Electrified service marketing campaign



Appearances	Functionality
Deep cleaning shelters	Replacing benches
Power washing platforms	Replacing fencing
Landscaping	Retrofitting mini highs
Painting	Updating schedule cases
Glass replacement	Installing QR codes

# Next Steps

# Upcoming RAMP Presentation Topics

Month	Topic(s)
January	RAMP Scorecard and Overall Progress Update
February	Top Risks, Pre-Revenue Operations Plan
March	Update on Transition/Handover + Safety, Security, Storage
April	Training Status and Emergency Preparedness
May	Energy Procurement Strategy and Budget Implications
June	Update on Soft Launch and Marketing Campaign
July	Passenger Information System Overview
August	Final Public Outreach and Opening Day Preparations
September	Update on Service Launch, Project Completion Celebration

FOR MORE INFORMATION

[WWW.CALTRAIN.COM](http://WWW.CALTRAIN.COM)

