



# Advanced Signal System Project Status

LPMG  
February 25, 2016



## Background

- Issue Design/Procure/Install Turn-key RFP: Aug 2010
- Awarded Prime Contact: Oct 2011
- Executed Service Agreement with CHSRA for Federal Railroad Administration Funding: Dec 2011
- Issued Notice to Proceed Parson Transportation Group: Jan 2012
- Executed Fiber Optic Option: April 2012
- Exercised Option 1 (Phase 2): April 2013
- Exercised Option 2 (Phase 3): Aug 2013
- Exercised Option 2 (Phase 4): Dec 2014

## Project Requirements

- PTC (Federal Mandate)
  - Prevent train to train collisions
  - Prevent over speed derailments
  - Prevent incursions into established work zones
  - Prevent movement through a misaligned switch
  - Interoperability
- CBOSS (Caltrain Improvements)
  - Enhanced crossing safety / performance
  - Improved headways and operational flexibility
  - Enforcement of scheduled station stops
  - Schedule management
  - Employee In Charge

3

## Project Status

- Complete
  - On-Board Equipment Installation
  - Wayside Interface Unit Installation and FRA Validation Testing
  - Fiber Optic Cable Installation
  - Base Station Installation
  - Backup Control Center Facility (BCCF) Build-out
- Continuing
  - Dynamic Testing with Test Train
  - High Rail Testing for FRA Official Critical Assets
  - Testing Conducted from BCCF

4

## Schedule and Budget

- New Project Baseline Schedule Developed
- Revenue Service Demonstration delayed Q4 2016
  - I-ITCS Software Release Delays
  - Contractor Execution Test Plans and Schedules
  - FRA process in flux
- Schedule delay requires additional funding
  - Commercial negotiation with Contractor
  - Funding for extension of Owners Team
  - Considering for FY17 Budget Process

## Project Key Milestones

Project Key Milestones		Planned Baseline Finish	Actual/ Forecast Finish
1	JPB Issued Notice to Proceed to PTG – Phase 1	Jan 2012	Jan 2012
2	Completion of Preliminary Design Review and Acceptance	Sept 2012	Nov 2012
3	Completion of Critical Design Review and Acceptance	Feb 2013	June 2013
4	Completion of Final Design Review and Acceptance	Jul 2013	Jun 2014
5	Completion factory Integrated Systems/Subsystem Demo	Sept 2014	Apr 2015
6	Completion of Data Communication Subsystem (DCS) Installation and Verification	Sept 2014	Apr 2015
7	Completion of Field Subsystem Installation and Verification	Jan 2015	Mar 2015
8	Completion of Onboard Subsystem Installation and Verification	Jun 2015	Aug 2015
9	Complete build out of BCCF for CBOSS PTC	Feb 2014	Sept 2014
10	Commence FRA Pilot Section Demonstration	Oct 2014	May 2015
11	Submit Revenue Service Demonstration Application	Jul 2015	Q3 2016
12	Revenue Service Demonstration	Oct 2015	Q4 2016
13	Final System Acceptance	May 2016	Q2 2017



## Next Steps

- Develop and Submit Revised Project Budget
- Complete Segment #3 Pilot Testing and FRA Witness Testing
- Submit Revenue Service Demonstration Application
- Complete Segment #2 and Segment #1 Testing

7



## Questions

More Information

website: [www.caltrain.com/cbossptc](http://www.caltrain.com/cbossptc)

email: [caltrainptc@samtrans.com](mailto:caltrainptc@samtrans.com)

phone: 650.508.6499

8