



# BART Oakland Airport Connector

RTSB Oversight of Safety  
Certification

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# BART OAC

- SYSTEM DESCRIPTION
- SAFETY CERTIFICATION

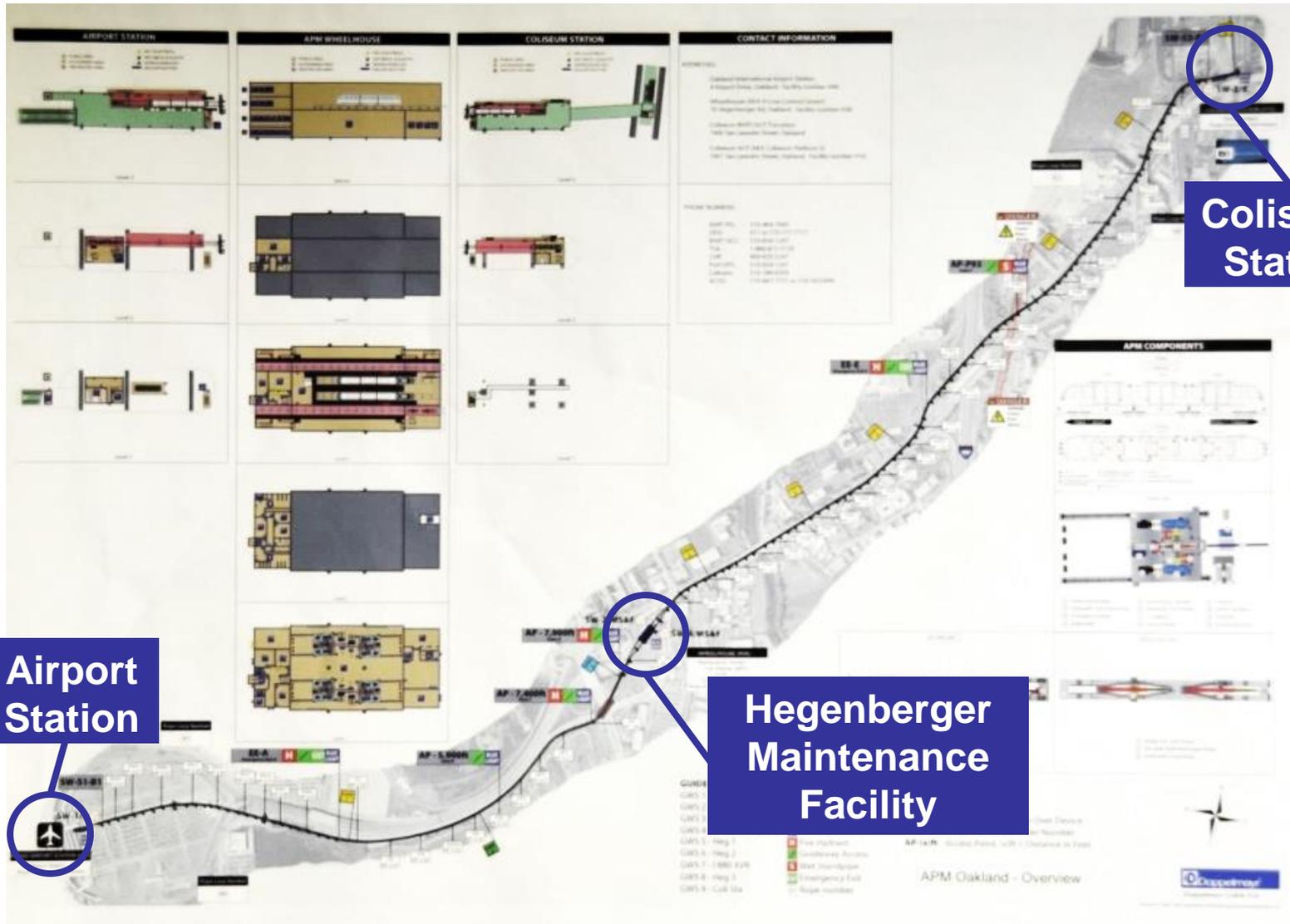




# System Description

- 3.2 miles
- Runs from BART's existing Coliseum Station to an all-new station at Oakland Airport
- Driverless trains run along an Automated Guideway Transit (AGT) System, controlled from the local control center





**Airport Station**

**Coliseum Station**

**Hegenberger Maintenance Facility**





# System Description

- Exclusive right-of-way
- 24-Hour system-wide supervision from a local control center
- Cable driven system





















# Safety Certification

- Major projects are required to have Safety Certification prior to operation
- Resolution ST-64 approved the SCP on October 2, 2003
- RTSS staff participates in the Safety Certification process
- SED authorizes revenue service





# Safety Certification

- SCP identified six certifiable factors, thirteen certifiable elements
- The factors and elements defined in the Certificates of Conformance must be completed prior to revenue service





# Safety Certification

## 6 Certifiable Factors

1. Design Criteria Conformance
2. Specification Conformance
3. Safety-related Testing and Inspection Conformance
4. Hazard and Vulnerabilities (Risk) Resolution Conformance
5. Plans, Rules, and Procedures Conformance
6. Training and Drills Conformance

## 13 Certifiable Elements

- A. Guideway
- B. Stations
- C. Maintenance and Storage Facility
- D. Station Equipment
- E. Power Distribution Equipment
- F. Ropeway Propulsion Equipment
- G. Guideway Equipment
- H. Vehicles
- I. Automatic Train Control
- J. Communications Systems
- K. Tow Vehicle
- L. Operations and Maintenance Training
- M. Emergency Response Drills and Orientation





# Safety Certification

## *Staff Involvement:*

- Member of Safety and Security Review Committee (monthly meetings since Preliminary Engineering phase)
- Member of Fire/Life Safety Committee
- Construction Walk downs
- Witnessed select Certifiable Element/System Validation Tests







# Safety Certification

- BART's General Manager submitted the Final Safety Certification Verification Report (SCVR), along with BART's Notice of Intent to Operate on October 30<sup>th</sup>.
- The SCVR includes verification documentation of each Certificate of Conformance





# Safety Certification

- In accordance with GO 164D, the SED Director approved the SCVR on November 7th.
- Revenue Service began two weeks later





# OTHER SAFETY CERTIFICATIONS

- RTSS Staff is involved currently with approximately 15 safety certifications with 6 major RTAs

