

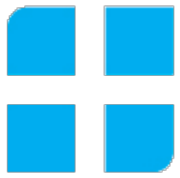
PODCAR CITY 2019

Safety Oversight and Certification

LEA  ELLIOTT

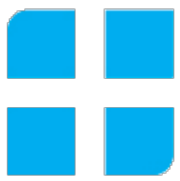
November 6, 2019





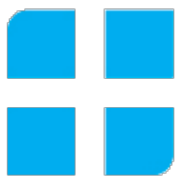
CA Public Utilities Commission

- Safety and security regulatory authority over all *Rail Fixed Guideway Systems* and other public transit fixed guideway systems under Public Utilities Code Section 99152 and other statutes
 - light, heavy, or rapid rail system,
 - monorail,
 - inclined plane,
 - funicular,
 - trolley,
 - cable car,
 - automatic people mover, or
 - automated guideway transit system used for public transit and not regulated by the Federal Railroad Administration or not specifically exempted by statute from Commission oversight
- CPUC's State Safety Oversight (SSO) Program approved and certified by the Federal Transit Administration
- (<https://www.cpuc.ca.gov/rtsb/>)



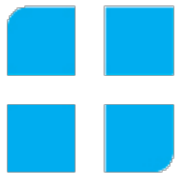
CPUC Rail Transit Safety Branch

- RTSB's engineers and analysts conduct continuous review and safety oversight of
 - design and construction of capital projects,
 - operations,
 - emergency response,
 - accident reporting, and
 - incident investigation.
- The RTSB inspectors
 - conduct on-site visits to inspect infrastructure and vehicles,
 - monitor operations, evaluate maintenance practices, and
 - other activities to identify noncompliance, safety concerns, and unsafe conditions.



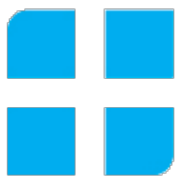
CPUC General Orders

- General Orders (GO) prescribe safety and security requirements for
 - design,
 - construction,
 - operation, and
 - maintenance.
- Applicability of GOs may not always be obvious
- GOs address
 - Design, construction and operation
 - Safety Certification
 - Accident reporting
 - Personal electronic devices
 - Roadway worker protection
 - Electric distribution/generating facilities
 - Railroad clearances
 - Overhead electric lines
 - Property easements



CPUC Involvement

- CPUC ensures that all rail transit system extensions and new construction projects undergo a safety certification review and approval (GO 164-E).
 - CPUC does not provide certification of a product
- Early and continuous
 - Fire, Life, Safety Committee / Safety and Security Committee
 - Design Reviews
 - Test procedure/report submissions
 - Test/Inspection witnessing
- Ensure understanding of applicable regulations
- All coordination with CPUC through Agency / Owner representative



CPUC Certification – GO 164-E

- Certification Document Requirements
 - System Safety Program Plan – prior to operations
 - System Security Plan – prior to operations
 - Safety Certification Plan – during the preliminary engineering phase
 - Hazard management process
 - Safety and security design criteria
 - Certifiable elements and sub-elements list
 - Conformance checklists
 - Safety Certification milestones
 - Safety Certification Verification Report – at least 21 days prior to service start
 - Verification confirmation of certifiable elements and sub-elements
 - Verification back-up material
 - Certificates of Conformance

- Ongoing requirements
 - Internal safety and security audits