

Caltrain Corridor Capacity Assessment

Purpose and Summary Scope of Work

Purpose

In February 2011, the California High Speed Rail Authority (CHSRA) announced that it would study the potential for completing the construction of the high-speed train project and operation of high-speed rail service in phases along the Caltrain corridor between San Francisco and San Jose. The Initial Operating Plan (IOP) would help determine what minimal infrastructure improvements are needed to accommodate initial high-speed rail and future Caltrain service needs.

To help inform CHSRA development of an IOP and to provide a baseline for its own planning efforts, Caltrain is conducting a capacity assessment to help determine what Caltrain and high-speed service levels can be generally accommodated in the existing Caltrain right-of-way, assuming PTC/CBOSS and Caltrain electrification.

Summary Scope of Work

Consultant: LTK Engineering

Estimated Completion Date: July 2011

Task 1

- Build operational model
- Input critical performance parameters

Task 2

- Simulate 6 Caltrain trains and define Caltrain capacity needs
- Fill remaining capacity with HSR trains
- Identify capacity “pinch points” and develop mitigation options
- Perform iterative simulation of reduced service levels until operational reliability is achieved

Task 3

- Identify infrastructure improvements to strategically expand capacity in corridor
- Define acceptable service plan for Caltrain and HSR

Task 4

- Evaluate impacts at 10 busiest grade crossings
- Quantify impacts of “gate down” time

Task 5

- Preliminary findings