

CA HSRA Progress Report – August 2009

Executive Summary

1) *Accomplishment Highlights*

As a clarification, the budgetary information presented herein represents the period expenditures from September 1, 2008 to the present to coincide with the funding provided. The progress schedule information relates to the work scope recently approved for FY 2009/2010.

a. Project Management and Controls

- Held weekly teleconference status calls with key PM Team staff and Authority staff and attended June Board meeting in Sacramento.
- Assess PMT and overall master schedule (addressing WBS, milestones, activities, and schedule control and maintenance) in response to the need for additional metrics as well as Authority comments.
- Continue evaluating record of deliverables.
- Teleconference held on recommendations on a separate document control platform for eventual PMP update in conjunction with the continued use of ProjectSolve.
- Produced draft summary of master schedule.
- Continued review of current QA/QC procedures (addressing PMT and RCs) for eventual update of PMP.
- Responded to website comments and outside requests for information.
- Review and propose changes to IT needs for PMT and the need for local PMT WAN.

b. Public outreach and communications

- a) Statewide Activities
 - Released media advisory, media release and reporter briefings for the August meeting and workshop. Meeting coordination and scheduling interviews for national and other reporters.
 - Refined of statewide video
 - Supported regional segment outreach work including weekly calls to update on activities and coordinate outreach.
 - Held meetings and phone calls with interested parties on status of project; scheduled HSRA representatives for presentations.
 - Added Board meeting materials and updated sections of website.
 - Prepared and provided weekly stakeholder meeting reports to board; board members for media interviews
 - Held strategy meetings with Program Management/HSRA staff on critical issues; participation on weekly PM team calls and monthly PM team meeting;
- b) Central Valley Outreach
 - Participated and prepared information for the Environmental Council of Sacramento – Transportation, Air Quality and Climate Change Committee, Sacramento City Council Meeting,

- Convened Technical Assessment Groups for Fresno, Bakersfield, Merced, and Technical working groups for Merced, Madera, Sacramento, San Joaquin county and Stanislaus County.
- Met with, briefed, contacted, or presented to 57 Officials, 1 Chambers of Commerce/Rotaries, 9 groups, and 1 city.
- c) Bay Area Outreach
 - Set tentative dates for scoping meetings in San Jose, Livermore, Stockton and Fremont for October.
 - Continued to respond to the public inquiries about the SF-SJ draft scoping report which is now available on the Authority's website.
 - Drafted an op-ed for the SF Examiner and the San Mateo County Times, and pitched a SF Business Times story – all published. Also drafted a speech for Fiona Ma for the Texas Transportation Summit, as well as an op-ed for Asian Press.
 - Drafted and directed a six week strategy plan for the Peninsula.
 - Preparing a Native American Coordination Plan.
 - Revised the Agency Coordination Plan, The Public Participation Plan, and the Scoping Report, developed a bilingual e-newsletter to announce the posting of the Scoping Report and provide advance notice of public meetings in October.
 - Met with, briefed, contacted, or presented to 6 Cities, 14 groups, and 3 officials.
- d) Southern California Outreach
 - Maintained ongoing communication with participating MOU agencies regarding upcoming meetings and outreach briefings, and prepared communications for each TWG meeting.
 - Held design workshops for the City of Los Angeles Planning Department and San Fernando Valley area planners, and the City of Glendale.
 - Finalized the dates for 10 public Scoping meetings in LA (2), San Bernardino (2), Riverside (3) and San Diego (3), and developed notification materials for review.
 - Participated and prepared information for the California Hispanic Chamber of Commerce Annual Conference, Nisei Week Festival, 11th Annual Eagle Rock Music Festival, SoCal Transportation CEOs, and an Interagency Meeting.
 - Met with, briefed, contacted, or presented to 26 Officials, 31 Groups, 12 Chambers of Commerce and 9 Cities.

c. Overall engineering and regulatory matters

- Engineering Management
 - Held weekly PMT Engineering Team meetings to confirm priorities, review action items and documents.
 - Held Monthly EMT Subsystem Manager Meeting to review and confirm priorities, delivery issues, and coordinate on engineering requirements.
 - Held a EMT Team meeting/Telcon/Webcast to update the whole EMT on the Program status and Priorities.
 - Held Bi-Weekly Regional Engineering Manager telecons to identify technical issues and provide technical consistency and guidance
 - Submitted schedule update for engineering activities

- Monitored team activity level for comparison against budget and time charges. EMT level of activity to date is consistent with budget.
- Continued development of simplified track chart to describe and locate major infrastructure and system elements of the CHSTP. Elements include track geometry, basic speed constraint locations, track layouts, station turn-outs, universal crossings, structures, TPSS locations, Level 1/2/3/4/5 facility locations, MOW facility locations, etc.
- Reviewed staffing plan based on proposed FY 09/10 budget.
- Provided technical support for preparation of Federal Stimulus pre-application for ARRA funding.
- Continued preparation of year end deliverables package for EMT.
- External Agency / Group
 - Engineering Related Meetings Attended
 - 27/28 Aug - FRA/MLIT Workshop on Shinkansen Regulations, Seismic Safety, Track Technology, and Operational Safety in Washington DC.
 - Completed and distributed Meeting Notes / Submittals for the following
 - Comments on DTX In-Progress Alignment Submittal dated 05 Jun 09
 - Reviewed and commented on the following External Meeting Notes / Submittals
 - None this period
- Regional Consultant Design Submittals
 - Design/Technical Coordination Meetings attended with Regional Teams
 - Bi-weekly Engineering Managers telecom was held on the second and fourth Thursday the month
 - Received design submittals for review as follows:
 - LA to Ana – 15% Design Draft Tunnel Drawings
 - LA to Ana – 15% Design Draft Geotechnical Report
 - Continued review for the following design submittals:
 - LA to Ana – 15% Design Draft Tunnel Drawings
 - LA to Ana – 15% Design Draft Geotechnical Report
 - Completed review and posted comments for the following design submittals:
 - LA to Ana – Draft 15% Storm Water Data and Hydrology / Hydraulics / Drainage Report dated Aug 09
 - LA to Ana -- Preliminary Grading Earthwork and Borrow Site Drawings, dated Aug 09
 - LA to Ana – Draft 15% Grade Separations Plan dated 04 Aug 09
 - LA to Ana – Draft 15% Bridges and Elevated Structures Plans dated 04 Aug 09
- Infrastructure
 - Received comments from FRA and AG on the Station Design guidelines TM. Responses have been prepared and began revision of the tech memo. There are some

policy issues raised that need to be confirmed. Need to confirm where policy guidance is to be documented.

- Updated the CHSTP Systemwide Schematic to reflect the near final Milepost TM.
 - Coordinated with the SF-SJ Section Designer and RM on typical four-track sections for a combined Caltrain / HSR operations. It was noted that operational and maintenance assumptions need to be included with the typical section as different operating and maintenance conditions would affect the required widths and access control.
 - Prepared a listing of CHSTP system features along the corridor that may require visual assessment including signal houses, signal equipment, OCS equipment, stations, etc. Exploring the need for a common written description prepared by the EMT for use in all environmental documents to ensure consistency of approach for system-wide features.
 - Continued discussion on design criteria and tunnel constraints to be considered for the Quantm analysis with the affected Regional Managers. Also issued revised unit prices specifically for use in Quantm for comparative assessment of the alignments. Quantm uses a limited number of cost items and it is critical that those unit items reflect a greater accuracy with respect to unit prices for structures (viaducts, tunnels, bridges, trenches) and earthwork.
 - Continued discussion and review of a draft 4-track section for SF to SJ with Regional Manager. The section requires further development before using for 15% design alignment work.
 - Completed a TM for Seismic Design Benchmarks in support of the Seismic Design Criteria TM for final review. A draft version was released to the LA to Ana Regional Consultant to clarify the Seismic Design requirements at 15% Design.
 - Continued investigation and review of distances for HSR bridge columns to conventional railroad tracks and provide informal guidance to Regional Manager – Sacto to Fresno for consideration and comment.
 - Continued reviewed and analysis for tunnel diameter requirements for 220 mph speeds. Completed analysis for consideration of UIC medical health criteria, electrical clearances, and rolling stock clearances. Continuing investigations for aerodynamic performance at lower speeds, and fire and life safety requirements.
 - Continued development of the 30% Design Scope guideline matrix, similar to that produced for the 15% Design Scope matrix.
 - Continued development of CHSTP System Requirements and Design Criteria based on review of EU TSI requirements and CFR regulations. See Regulatory Approvals progress report for system requirements status.
 - Continued evaluation of effects of global warming and sea level rise to the CHSTP. Federal and state agency studies are available but no formal federal or state agency guidance has been issued to date specifically addressing sea level rise.
- Traction Power and Distribution
- Confirmed operating scope for traction power simulation modeling of the LA-Anaheim-Irvine segment accounting for possible locations of the Level 1/2/3 Maintenance and Storage sites. Model is being used to confirm traction power sites for this segment based on updated operational approaches and high voltage utility data.

- Finalized additional information to document the pantograph clearance envelop for speeds of 220 mph and 125 mph. Two new drawings were prepared and clarify how the clearance dimensions shown in the TM are developed and that they are based on conservative assumptions at this time
- Continued review of utility line maps from the California Energy Commission to update the initial assessment on the need for HV transmission lines to supply the power supply substations. Assessment completed for Phase 1 segments. TPSS sites for Full build segments are under development
- Continued development of CHSTP System Requirements and Design Criteria based on review of EU TSI requirements and CFR regulations. See Regulatory Approvals progress report for system requirements status.
- Train Controls and Communications
 - Began coordination with PMT Environmental Team on EMI/EMF requirements and procedures for assessing EMI/EMF impacts.
 - Began development of an Automatic Train Control criteria document. This document will serve as the basis for identifying available technologies and developing the system requirements and procurement specifications for the CHSTP.
 - Prepared a white paper on the current HSR train control technologies for 220 mph, Caltrain's proposed CBOSS train control system, and considerations moving forward with respect to interoperability issues. One of the key issues identified is compatibility of both CHSTP and CBOSS with freight railroad PTC systems currently in development to meet the FRA PTC requirements for all operating railroads.
- Operations
 - Prepared a fire and life safety overview of current NFPA and TSI requirements for tunnels. Overview memo also identifies State Fire Marshall requirements for protection of enclosed space. It is evident that there are significant differences between NFPA and TSI requirements for safety in tunnels. This overview serves as a starting point in developing the fire and life safety approach for the CHSTP.
 - Began review of the Safety and Security documentation requirements for the Environmental Review process. It is being confirmed if a System wide approach for environmental documentation is more efficient and effective than a section approach.
 - Finalized tech memo regarding divisions and mileposts. Divisions are developed to support both the future operations and maintenance plans. Mileposts have been revised to increase in a southerly direction. Divisions are approximately 150 miles long and will guide MOW facility requirements.
 - Continued discussion and investigation for operational speed constraints for long sustained downhill grades. Regional teams are being directed to meet published criteria so as to avoid any operational related speed constraints. Issue related to safe breaking on long sustained grades.
 - Continued development of CHSTP System Requirements and Design Criteria based on review of EU TSI requirements and CFR regulations. See Regulatory Approvals progress report for system requirements status.
- Maintenance

- Began assessment of the feasibility of the Golden Pig site near LAUS as a Level 1/2/3 Maintenance and Storage facility for both the LA and Anaheim Terminals. Initial review identified grade issues for the lead tracks into the facility. This may be addressed with options to place the HSR facility on a deck or by reconfiguring the facility as a stub end yard.
- Completed update of a Maintenance Facility tech memo and facility layouts. Incorporated maintenance of way facilities into the draft memo. This facilities requirements summary memo identifies the heavy maintenance facility requirements for use in identifying potential sites. The memo addresses space and operational needs including access and parking of staff.
- Reviewed and commented on the Draft RFEI process for siting the maintenance facilities.
- Prepared and provided the rationale for the HMF being located in the Central Valley between Merced and Bakersfield. Primary justification is to support the possible assembly, and testing and commissioning requirements of the CHSTP trainsets.
- Rolling Stock
 - Prepared an internal memo outlining requirements for a test track facility suitable for testing and commissioning the CHSTP high-speed train sets. Generally, a test track approximately 100 miles in length is required to accommodate overspeed tests. The test track should also have access to a facility for storage, maintenance, and possibly assembly.
 - Continued review and comparison of CFR and TSI requirements for Rolling Stock. Began development of CHSTP requirement for addressing CFR and TSI requirements. See Regulatory Approvals progress report for system requirements status.
- Systems Integration
 - Began development of the 15% Design unit prices for use by the section designers in preparing the 15 % design cost estimates.
 - Collected the design submittal schedules for the Regional Consultants to identify submittal review schedule and resource requirements. Continued compilation of submittal review schedule based on Regional Consultant environmental and engineering schedules.
 - Began development of Review Manager as the submittal review documentation tool. This tool is compatible with ProjectSolve. Development is underway to configure Review Manager to be consistent with the current Comments/Response Matrix. Review Manager looks to be an effective tool for managing the anticipated thousands of comments, responses and resolution for hundreds of submittals.
- Regulatory Approvals
 - Prepared and submitted an approach for acceptance of hazard analysis reports by the Authority. HA reports require acceptance of the residual risk by the owner of the system before proposed risk mitigation is implemented into the design criteria or preliminary design.
 - Attended the FRA/MLIT workshop in Washington DC. Internal notes were prepared and distributed for review along with the presentation material.

- Reviewed FRA draft Safety Strategy for HSR and the APTA comments. APTA responses addressed the key concerns regarding use of RPA for HSRExpress and passenger occupied forward Cabs.
 - Continued bi-weekly telecon coordination calls with FRA to track progress of CHSTP System Requirements reviews and monitor progress for developing the CHSTP RPA. Reviews of SR are progressing slowly. Telecons are scheduled for Sept to discuss FRA comments for four CHSTP SR packages.
 - Began preparation of a map showing limits of possible shared corridors with other railroad operator using the CHSTP System Schematic as a basis. This document is for information only and presents the understanding of possible shared use corridors as of Aug 2009.
 - Revised CHSTP System Requirements priority and review package structure based on discussion with FRA to group CHSTP SRs by technical review specialist for easier coordination with FRA.. There is a total number of approximately 80 SR packages covering the 400+ SRs. .
 - Six CHSTP SR packages were submitted to FRA for review covering specific technical requirements for Rolling Stock glazing and breaking, and Track requirements.
 - Continued update of the Risk Management Approach for CHSTP in accordance with the memo recommending a revised approach. A draft TM was submitted for internal review and discussion.
 - Continued the risk management activity to assess the requirements for intrusion protection in the Central Valley. Completed the hazard ID, hazard assessment, and began hazard mitigation.
 - Continued Collision Hazard Analysis in accordance with FRA guidelines.
 - Continued preparation of outline for Railroad Safety Program Plan.
 - Continued review of industry best practice of RAMS (Reliability, Availability, Maintenance, Safety) requirements for high-speed rail. Began development of recommended approach for RAMS application to CHSTP.
 - Continued development of CFR/TSI Compliance database for use in generating the draft Rule of Particular Applicability.
- Miscellaneous Items
- None this period
- Technical memorandums
- Active Technical Memos formally issued to date for Regional Designer use
 - Active list is maintained in the Tech Memo Excerpts Folder on ProjectSolve.
 - Active Technical Memos issued for internal PMC use
 - Active list is maintained in the Tech Memo Excerpts Folder on ProjectSolve
 - Formally issued technical memos and other documents this period
 - TM 3.2.3 Pantograph Clearances, R0
 - TM 5.1 Terminal and Heavy Maintenance Facility Guidelines, R0

- TM 5.3 Summary Description: HMF, Lay-up and Storage, Right of Way Maintenance Facilities, R0
- Final draft of technical memos ready for Program Director review this period
 - TM 0.3 CHSTP Basis of Design Policy, R2
 - TM 1.1.8 Subdivisions, Tracks Designation, Mileposts and Stationing, R0.
 - TM 2.4.2 Basic Tunnel Configuration, R0
- System Level Review TMs completed this period
 - TM 6.2 Intro of Euro/Asian Rolling Stock to California, R0
 - TM 7.2 FRA Criteria Applicability, R0
- System Level Review TMs in Progress this period
 - TM 1.1.10 Structure Gauge, R0
 - TM 3.4.10 Electromagnetic Compatibility Design Criteria, R0
- Internal Draft TMs in Progress this period
 - None this period

d. Alignment Engineering and Environmental Review Work

1. Los Angeles to Orange County (STV)

- Submitted the following: Preliminary Geotechnical Study Report, Schedule Update #1 to Baseline Schedule version 42, and Draft 15% for Bridges and Structure Plans, Grading Plans, Storm Water Data Report, Hydrology Report, Grade Separations TM, Grade Separations Plans, Tunnel Plans, and Alignment.
- Began assessing additional survey requirements of close clearance and sensitive areas, and began revising alignment track center from 15' to 16'6" per direction of PMT, and adjust both horizontal and vertical alignments per the review comments.
- Developed conceptual layouts for Vehicle Maintenance Facilities for Anaheim and Los Angeles. Also developed conceptual alignment for an aerial viaduct in Anaheim as no decision about UPRR diamond crossing was reached during August requiring the aerial crossing of this railroad track. Researched alternative freight railroad operational opportunities to eliminate need to design aerial guideway and presented to PMT.
- Continued work on the Environmental Analysis.
- Conducted significant outreach as reported above in (b).

2. Palmdale to Los Angeles (HUA)

- Continued Quantm analysis for Sylmar to Palmdale section, adding biological resources constraints, 25 runs performed to the end of August, and presented Quantm progress and issues at a workshop with the Authority, received direction to consider working with smaller radii and slower design speeds.
- Met with Disney and learned of their concerns regarding impacts on their proposed development north of SR-134 west of the Metrolink ROW.
- Prepared initial at-grade crossing report for internal review and conceptual grade separation plans for 20 locations between LAUS and Sylmar.

- Continued protocol surveys for biological resources. Complete – Arroyo toad, Least Bell's vireos, southwestern willow flycatchers, California gnat-catchers surveys. In progress – Red-legged frog survey.
- Kicked off data collection and preparation of baseline studies. LAUS to Palmdale - transportation, air-quality, noise and vibration, and hazardous materials. SR-134 to Palmdale - geology, aesthetics and visual, public utilities and energy. Sylmar to Palmdale – land use, biological and cultural resources.
- Conducted significant outreach as reported above in (b).

3. Sacramento – Fresno (AECOM)

- Drafted and posted NOI/NOP.
- Prepared limits of aerial photo mapping for solicitation of bids from Digital Globe for alternatives analysis mapping of UPRR, CCTC and BNSF alternatives. Also prepared limits of topographic mapping for solicitation of bids from Intermap for 15% design of UP1 and UP2 alternatives.
- Continued coordination with alternatives analysis team to assure alignment alternatives meeting high-speed train design criteria.
- Commenced 15% Design activities on UP2 alignment in anticipation of approval for advancing this alternative in the environmental analysis phase of project development.
- Revised P&N statement per PMT direction.
- Conducted significant outreach as shown above in (b).

4. Fresno – Palmdale (UHA)

- Prepared for application of the Quantum method of analysis for the Tehachapi Mountains alignment. Four people were trained to use Quantum. Also identified 50 potential alignments for Palmdale to Bakersfield for further review.
- Carried out a field trip to the Mojave to Palmdale sector to study the topography, urban areas, military zones, airports, and other alignment constraints.
- Continued work on basic designs for HST structures, tunnel design concepts, and geotechnical information.
- Submitted draft Right of Entry letter format to PMT for comment, and completed draft EJ coordination plan for internal review. Also completed the draft Agency coordination plan and posted to ProjectSolve.
- Continued work on AA level alignment engineering including drawing standards, roadway grade separations, and required HST structures in the Bakersfield area.
- Prepared amended NOI/NOP to address revised segment length from Fresno to Bakersfield, and posted it to ProjectSolve for comment and revision. Also prepared the draft Tribal Coordination plan and posted it to ProjectSolve.
- Conducted significant outreach as reported above in (b).

5. San Diego – Los Angeles (HNTB)

- Continued work on the LA to SD Concept Study – Held TWG meetings in San Bernardino County, Riverside County and Los Angeles County. Also coordinated with the SANDAG special study.
- Developed further detail for Alternatives Analysis activities.
- Conducted significant outreach as reported above in (b).

6. San Jose – Central Valley Wye

- Progressed 2%-4% alignment design on the alternative alignments; the same progress has been made of the design development of roadway modifications.
- Continued acquiring InterMap data/files – particularly for the additional areas East of Morgan Holl and San Martin, and the area south of the San Luis Reservoir. To date, all DTM and photo imagery that has been requested has been received.
- Procured property line and property ownership data for affected project area, began development of station footprints, and began consideration of construction methods for San Jose Downtown Tunnel alternative.
- Held kick-off meeting with cultural and biological staff to begin the baseline/affected environment sections.
- Continued working on Purpose and Need statement.
- Conducted outreach as reported above in (b).

7. San Francisco to San Jose

- Continued refining DTM of existing conditions, and development of sub-segment 3D design models, focused on the San Mateo, and Palo Alto area alternatives.
- Identified areas of a 4-track alignment that require adjustment to lie within the existing corridor, identified areas of possible ROW need. Reviewed PMT 4-track typical section for this segment.
- Continued development of horizontal and vertical concepts for the Bayshore-Transbay and Santa Clara-San Jose Diridon subsections, and also continued developing conceptual locations for a maintenance facility on the Peninsula in the Baylands/Bayshore area.
- Continued work on technical studies – cultural resources, biological resources, and air quality.
- Conducted outreach as shown above in (b).

8. Altamont Corridor

- Finalized base mapping appropriate for opportunities and constraints analysis, scoping process, and alternatives analysis.
- Continued opportunities and constraints analysis including field activities and specific coordination with local governments to identify key issues associated with specific alternatives and station locations
- Input to planning and scoping meetings, input to the Draft and Final NOI/NOP.

Conducted outreach as shown above in (b).

e. Environmental Guidance and Review

- Conducted EIR/EIS methods workshops for the Anaheim to LA environmental team in the preparation of technical reports for Hazardous Materials, Community Impact Assessment, Visual Impact Assessment, Water Quality, Geology & Soils, Biology, and Cultural Resources.
- Continued management of environmental studies for the Anaheim to LA and LA to Palmdale regional teams.

- Coordination meetings with Regional environmental teams
- Conduct bi-weekly conference calls with regional team environmental leads
- Continued coordination with Authority, AG, and FRA and on-going environment tasks
- Coordinated with environmental resource agencies to fund staff position
- Work with SD to LA Team on scoping
- Prepared a Station Parking Guidelines Technical Memo
- Review of NOI/NOP for Palmdale – Bakersfield and LA – SD
- Begin second round of review of Anaheim to LA technical report baseline sections
- Developed an Alternatives Analysis (AA) Process for Maintenance Facility sites

e. Ridership and Revenue Forecasting

- Agreed on Scope of Work for Cambridge Systematics and Notice to Proceed was given.

g. Construction Procurement Documents

- No activity planned

2) Issues and areas of concern

- HNTB (LA –SD) noted that the final approval for the NOI/NOP has extended the Pre-Scoping activities beyond the proposed schedule. Assuming the NOI/NOP is approved in mid-September, the major milestone deliverables are still scheduled to be completed within FY 2009-2010. If the NOI/NOP final approval extends beyond mid-September, then the schedule to complete the deliverables in FY 2009-2010 will need to be re-evaluated.
- AECOM (Altamont) noted that project justification document has been submitted to FRA for approval and early indications are that FRA is willing to be the federal project sponsor. In order to maintain the project schedule, FRA needs to respond affirmatively to this request so that tentative scoping meeting dates and publication of the NOI/NOP can occur. Also, the NOI/NOP needs to be published in September 2009. If this date cannot be held the schedule for the scoping meetings will shift accordingly.
- Parsons (San Jose to Merced) is making efforts to accelerate scheduled deliverables given that some tasks were delayed due to prior reduced budget limited NTPs. Increased staffing levels were applied during August to accelerate completion of these activities.
- HNTB (Caltrain) is still awaiting execution of the Programmatic Agreement with SHPO, which is delaying intensive archeological field work. Also expending additional effort in public outreach in support of the combined HSR/Caltrain enhanced outreach approach.
- STV (LA to Anaheim) noted that full project definition is being locked at the alignment in the current AA. This is causing concern amongst the cities in the Gateway COG, as they have indicated that their concerns have not fully been heard.

- AECOM (Sac to Fresno) again noted need for Outreach coordination with the Altamont team, and need to fix the schedule glitch. They also noted that refinement is needed in the process of document and meeting information as the Authority issued the Heavy Maintenance Facility information on the website without advance notice to the project team. They are also in short supply of printed handouts.

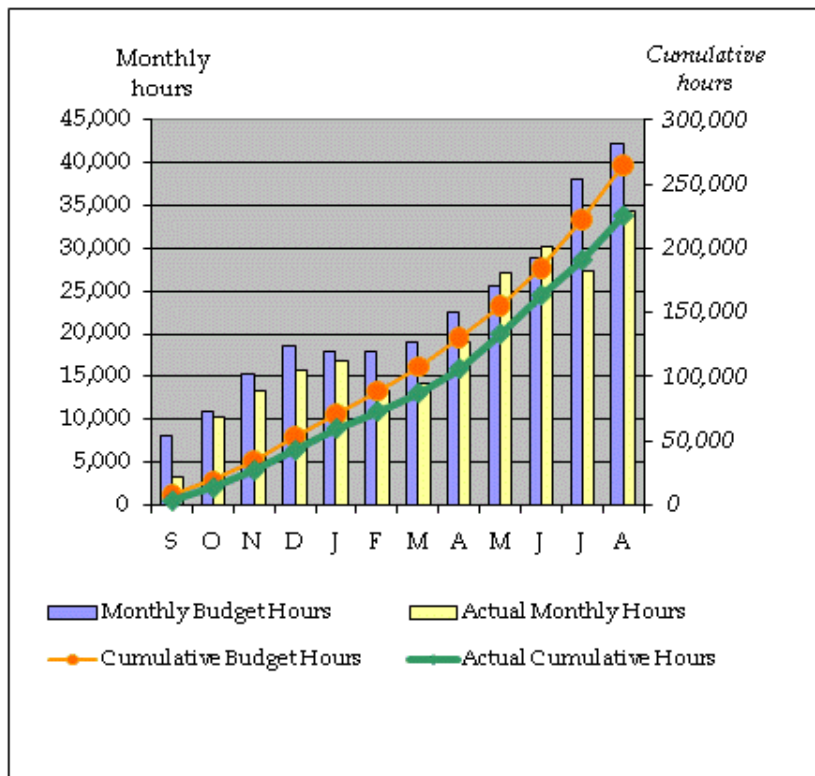
3) Progress and spending – actual vs. planned

The planned expenditures (and hours) were calculated based upon work from September 1, 2008 to August 31, 2009.

The overall assessment of the effort indicates the Regional Consultants are below effort on staffing and expenditures and are below plan on progress. The Regional managers are pushing them to staff their project with more resources. The Program Management function is slightly over on budget and hours due to un-programmed efforts as directed by the Authority. This minor overrun is more than offset by the Regional Consultants under runs. The budget for FY 2008/2009 was not entirely consumed.

a. Hours Worked

In August, total effort went up by over 37% over July’s effort reaching roughly 34,500 hours worked. This was 81% of the revised cumulative budgeted effort for the month. This is 92% of the total planned hours.



CAHSR Team Components	Hours Worked in Current Month		Hours Worked Cumulatively	
	Planned	Actual	Planned	Actual
Program Management (PB)	7,385	8,295	66,221	69,800
Los Angeles – Palmdale (HUA)	9,006	4,307	38,500	26,888
LAUPT – Orange Co (STV)	7,800	6,838	47,885	41,116
Los Angeles – San Diego (HNTB)	1,675	1,450	13,068	10,795
Fresno – Palmdale (UHA)	6,895	6,246	33,448	31,616
Sacramento – Fresno (AECOM)	2,965	1,863	26,807	15,051
Visual Simulation (NC3D)	0	0	0	0
San Jose – Central Valley Wye (Parsons)	2,400	2,089	12,258	8,611
Altamont (AECOM)	1,110	491	7,033	3,235
San Francisco – San Jose (HNTB)	3,071	2,845	19,662	17,719
Program total	42,307	34,424	264,882	224,831
<i>As of August 2009</i>				

The table shows hours worked for each of the 10 consultant teams.

The PM team (PB) worked 8,295 hours, 12% more than the revised plan for August, bringing it to 105% of the planned cumulative plan.

The Los Angeles – Anaheim (STV) team worked 6,838 hours, 87% of their revised monthly plan for August. They are at 86% of their cumulative plan.

The San Francisco – San Jose (HNTB) team worked 2,845 hours, 92% of their revised plan for August. They are at 90% of their cumulative plan.

The Palmdale-LA (Hatch-URS-Arup) team worked 4,307 hours, 48% of their revised monthly plan for August. They are at 70% of their cumulative plan.

The Fresno- Palmdale (URS-Hatch-Arup) team worked 6,246 hours, 91% of their revised monthly plan for August. They are at 95% of their cumulative plan.

The San Diego – Los Angeles (HNTB) team worked 1,450, 87% of their revised monthly plan for August. They are at 83% of their cumulative plan.

The Visual Simulation (Newlands) team did not submit a report in August, as in previous months.

The San Jose - Central Valley Wye (Parsons) team billed 2,089 hours, 87% of their revised monthly plan for August. They are at 70% of their cumulative plan.

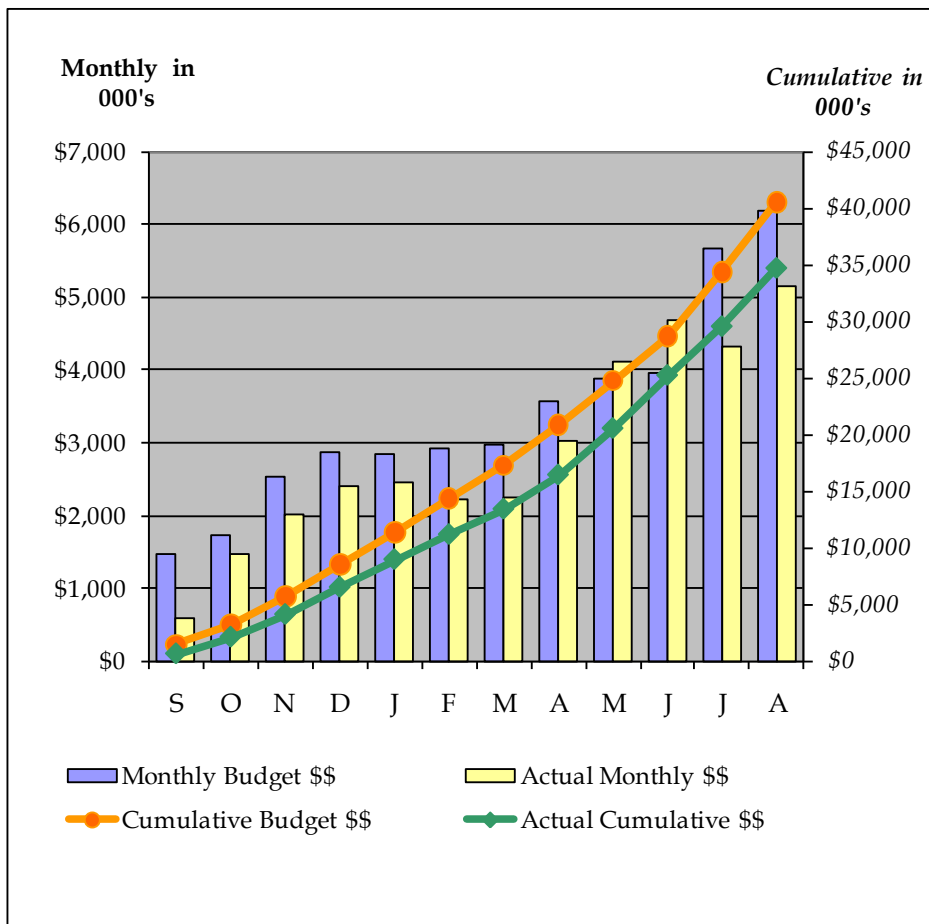
The Altamont (AECOM) team billed 491 hours, 44% of their revised monthly plan for August. They are at 46% of their cumulative plan.

Sacramento-Fresno (AECOM) team worked 1,863 hours, 63% of their revised monthly plan for August. They are at 56% of their cumulative plan.

b. Dollars Expended

In August, the teams billed a total of \$5.2 million, 83% of the revised plan amounts for the month. For the year, \$34.7 million has been incurred, 85% of the cumulative revised plan.

Individual differences from plans are shown in the table below.



HSR Program Component(s)	\$\$ Spent (000s) in Current Month		\$\$ Spent (000's) Cumulatively	
	Planned	Actual	Planned	Actual
Program Management (PB)	\$ 1,500	\$ 1,437	\$ 13,052	\$ 12,843
Los Angeles – Palmdale (HUA)	\$ 1,234	\$ 529	\$ 5,155	\$ 3,517
LAUPT – Orange Co (STV)	\$ 382	\$ 900	\$ 5,265	\$ 5,244
Los Angeles – San Diego (HNTB)	\$ 253	\$ 222	\$ 2,008	\$ 1,676
Fresno – Palmdale (UHA)	\$ 1,168	\$ 824	\$ 5,180	\$ 4,278
Sacramento – Fresno (AECOM)	\$ 382	\$ 274	\$ 3,016	\$ 1,904
Visual Simulation (NC3D)	\$ -	\$ -	\$ -	\$ -
San Jose - Central Valley Wye (Parsons)	\$ 500	\$ 441	\$ 2,499	\$ 1,845
Altamont (AECOM)	\$ 205	\$ 97	\$ 1,380	\$ 657
San Francisco – San Jose (HNTB)	\$ 559	\$ 427	\$ 3,022	\$ 2,702
Program total	\$ 6,183	\$ 5,151	\$ 40,577	\$ 34,666
<i>As of August 2009</i>				

c. Schedule and deliverable progress vs. dollars spent (earned value)

HSR Program Component(s)	\$\$ billed as % of total year's budget		Progress as % of total year's work	
	Planned	Actual	Planned	Actual
Program Management (PB)	100%	98%	100%	98%
Los Angeles – Palmdale (HUA)	100%	68%	100%	68%
LAUPT – Orange Co (STV)	100%	100%	100%	100%
Los Angeles – San Diego (HNTB)	100%	88%	100%	88%
Fresno – Palmdale (UHA)	100%	83%	100%	83%
Sacramento – Fresno (AECOM)	100%	63%	100%	63%
Visual Simulation (NC3D)	n.a.	n.a.	n.a.	n.a.
San Jose - Central Valley Wye (Parsons)	100%	74%	100%	74%
Altamont (AECOM)	100%	48%	100%	48%
San Francisco – San Jose (HNTB)	100%	89%	100%	89%
Program total	100%	70%	100%	70%
<i>As of August 2009</i>				

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Work & Deliverables Description	Start Date	Finish Date	Total Plan Pct Cmpl	Total Phys Pct Cmpl	FY 09/10 Plan Pct Cmpl	FY 09/10 Phys Pct Cmpl	Aug. '09 Plan Pct Cmpl	Aug. '09 Phys Pct Cmpl	FY10															
									J	A	S	O	N	D	J	F	M	A	M	J				
CA HSRA Program Management Team																								
+ Task 1 Project Management & Controls																								
	16NOV06A	30JUN13	42	42	16	16	8	8																
+ Task 2 Public Education & Communications																								
	16NOV06A	30JUN13	42	42	16	16	8	8																
Task 3 Engineering Criteria & Design Management																								
3.1 - Team Management																								
+ 3.1.1 - Engineering Task Mgmt Plan and Protocols																								
	16NOV06A	01JUL13	40	40	16	16	8	8																
3.2 - Infrastructure																								
+ 3.2.1 - Develop CHSTP System Requirements																								
	02JUL07A	30JUN10	20	20	20	20	5	5																
+ 3.2.2 - Technical Memo, Standard Plans & Specs																								
	02JUL07A	31DEC10	60	60	15	15	10	10																
+ 3.2.3 - Engineering Support																								
	02JUL07A	01JUL13	40	40	15	15	5	5																
3.3 - Systems																								
+ 3.3.1 - Develop CHSTP System Requirements																								
	02JUL07A	30JUN10	20	20	10	0	5	0																
+ 3.3.2 - Technical Memo, Standard Plans & Specs																								
	02JUL07A	30JUN10	40	40	25	25	15	15																
+ 3.3.3 - Engineering Support																								
	02JUL07A	01JUL13	40	40	15	15	10	10																
3.4 - Operations																								
+ 3.4.1 - Develop CHSTP System Requirements																								
	02JUL07A	30APR10	0	0	0	0	0	0																
+ 3.4.2 - Technical Memo, Standard Plans & Specs																								
	02JUL07A	30JUN10	70	70	20	20	10	10																
+ 3.4.3 - Engineering Support																								
	02JUL07A	01JUL13	40	40	15	15	7	7																

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									J	A	S	O	N	D	J	F	M	A	M	J				
3.5 - Maintenance																								
+ 3.5.1 - Technical Memoranda																								
	02JUL07A	30JUN10	20	20	0	0	0	0																
+ 3.5.2 - Technical Memo, Standard Plans & Specs																								
	02JUL07A	30JUN10	20	20	0	0	0	0																
3.6 - Rolling Stock																								
+ 3.6.1 - Develop CHSTP System Requirements																								
	02JUL07A	30JUN10	65	65	65	65	5	5																
+ 3.6.2 - Prepare Draft Performance Specification																								
	02JUL08A	28JUN11	10	10	10	10	5	5																
+ 3.6.3 - Technical Memo, Standard Plans & Specs																								
	02JUL07A	31AUG09A	100	100	100	100	25	25																
+ 3.6.4 - CHSTP - Rail Rolling Stock Procurement																								
	02JUL09A	25JUN13	5	5	5	5	3	3																
3.7 - Regulatory Approvals																								
+ 3.7.1 - Federal Railroad Administration (FRA)																								
	02JUL07A	29JUN12	40	40	10	10	5	5																
+ 3.7.2 - Calif Public Utilities Commission (CPCU)																								
	02JUL07A	30JUN10	25	25	0	0	0	0																
+ 3.7.3 - Risk Management																								
	02JUL07A	01JUL13	40	40	75	75	50	50																
+ 3.7.4 - Technical Memo, Standard Plans & Specs																								
	02JUL07A	30JUN11	75	75	40	40	20	20																
3.8 - CHSTP Standard Drawings																								
+ 3.8.1 - CHSTP Standard Plans																								
	02JUL07A	30JUN11	25	25	40	40	20	20																
3.9 - CHSTP Standard Specifications																								
+ 3.9.1 - List of CHSTP Standard Specifications																								
	02JUL07A	30JUN11	50	50	50	50	25	25																

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									J	A	S	O	N	D	J	F	M	A	M	J		
3.10 - Cost Estimating																						
+ 3.10.1 - 15% Design Level Capital Cost Estimate																						
	02JUL07A	30OCT10	30	30	50	50	25	25														
+ 3.10.2 - 30% Design Level Capital Cost Estimate																						
	02SEP09	30JAN12	0	0	0	0	0	0														
+ 3.10.3 - Annual Operations and Maintenance Costs																						
	02JUL09A	31DEC13	40	40	25	0	15	0														
3.11 - Design Manual																						
+ 3.11.1 - CHSTP Design Manual																						
	02JUL07A	30JUN11	10	10	10	10	5	5														
3.12 - Design Submittal Review																						
+ 3.12.1 - Submittal Reviews & Compliance Reviews																						
	02JUL09A	01JUL13	10	10	15	15	10	10														
Task 4 Environmental Review																						
+ 4.1- Project Task Management																						
	16NOV06A	30JUN13	42	42	10	10	5	5														
+ 4.2 - Program Management Coordination																						
	16NOV06A	30JUN13	42	42	10	10	5	5														
+ 4.3 - Environmental Scoping																						
	02JUL07A	30DEC11	48	48	15	15	7	7														
+ 4.4 - Alternative Analysis (AA) Process																						
	02JUL07A	30DEC11	48	48	15	15	7	7														
+ 4.5 - Environmental Methods																						
	02JUL07A	30JUN10	72	72	12	12	6	6														
+ 4.6 - Public/Agency Involvement and Coordination																						
	02JUL07A	30JUN13	36	36	10	10	5	5														
+ 4.7 - Review of Enviro, Social, Econ & Comm Issu																						
	02JUL07A	30DEC11	48	48	8	8	4	4														
+ 4.8 - Review of Technical Reports and DIES/R																						
	02JUL07A	30JUN13	36	36	8	8	4	4														

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									J	A	S	O	N	D	J	F	M	A	M	J	
+ 4.9 - Permits and Approval																					
	02JUL07A	30JUN13	36	36	8	8	4	4													
+ 4.10 - Statewide Technical Tasks																					
	02JUL07A	30JUN13	36	36	12	12	6	6													
+ 4.11 - GIS Support Services																					
	02JUL07A	30JUN13	36	36	8	8	4	4													
Task 5 Regional Consultants Oversight																					
H1 - San Francisco to San Jose -- HNTB																					
+ 5.1 - Project Management																					
	16OCT08A	30MAR12	25	25	16	16	8	8													
+ 5.2 - Meetings																					
	16OCT08A	30MAR12	25	25	16	16	8	8													
+ 5.3 - Engineering and Environmental Review																					
	16OCT08A	30MAR12	25	25	16	16	8	8													
G1 - San Jose to Merced -- PARSONS																					
+ 5.1 - Project Management																					
	10DEC08A	30MAR12	22	22	16	16	8	8													
+ 5.2 - Meetings																					
	10DEC08A	30MAR12	22	22	16	16	8	8													
+ 5.3 - Engineering and Environmental Review																					
	10DEC08A	30MAR12	22	22	16	16	8	8													
E1 - Merced to Fresno -- AECOM																					
+ 5.1 - Project Management																					
	12FEB07A	05DEC12	44	44	16	16	8	8													
+ 5.2 - Meetings																					
	12FEB07A	05DEC12	44	44	16	16	8	8													
+ 5.3 - Engineering and Environmental Review																					
	12FEB07A	17AUG12	46	46	16	16	8	8													
D2 - Fresno to Bakersfield -- URS																					
+ 5.1 - Project Management																					
	12FEB07A	30JUN13	40	40	16	16	8	8													

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									J	A	S	O	N	D	J	F	M	A	M	J				
+ 5.2 - Meetings																								
	12FEB07A	29JUN12	47	47	16	16	8	8																
+ 5.3 - Engineering and Environmental Review																								
	12FEB07A	29JUN12	47	47	16	16	8	8																
D1 - Bakersfield to Palmdale -- URS																								
+ 5.1 - Project Management																								
	12FEB07A	30JUN13	40	40	16	16	8	8																
+ 5.2 - Meetings																								
	12FEB07A	30JUN13	40	40	16	16	8	8																
+ 5.3 - Engineering and Environmental Review																								
	12FEB07A	30JUN13	40	40	16	16	8	8																
A1 - Palmdale to Los Angeles -- HMM																								
+ 5.1 - Project Management																								
	12JAN07A	30MAR13	42	42	16	16	8	8																
+ 5.2 - Meetings																								
	12JAN07A	30MAR12	50	50	16	16	8	8																
+ 5.3 - Engineering and Environmental Review																								
	12JAN07A	30MAR12	50	50	16	16	8	8																
B1 - Los Angeles to Anaheim -- STV																								
+ 5.1 - Project Management																								
	29DEC06A	30JUN13	41	41	16	16	8	8																
+ 5.2 - Meetings																								
	29DEC06A	31AUG11	57	57	16	16	8	8																
+ 5.3 - Engineering and Environmental Review																								
	29DEC06A	11NOV11	55	55	16	16	8	8																
C1 - Los Angeles to San Diego -- HNTB																								
+ 5.1 - Project Management																								
	06FEB07A	30JUN13	40	40	16	16	8	8																
+ 5.2 - Meetings																								
	06FEB07A	30JUN13	40	40	16	16	8	8																
+ 5.3 - Engineering and Environmental Review																								
	06FEB07A	30JUN13	40	40	16	16	8	8																

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									J	A	S	O	N	D	J	F	M	A	M	J				
E2 - Merced to Sacramento-- AECOM																								
+ 5.1 - Project Management																								
	12FEB07A	30JUN13	40	40	16	16	8	8																
+ 5.2 - Meetings																								
	12FEB07A	30JUN13	40	40	16	16	8	8																
+ 5.3 - Engineering and Environmental Review																								
	12FEB07A	03AUG13	39	39	16	16	8	8																
F1 - Altamont Pass -- AECOM																								
+ 5.1 - Project Management																								
	21NOV08A	30JUN13	17	17	16	16	8	8																
+ 5.2 - Meetings																								
	21NOV08A	30JUN13	17	17	16	16	8	8																
+ 5.3 - Engineering and Environmental Review																								
	21NOV08A	30JUN13	17	17	16	16	8	8																
Task 6 Right of Way Assessment & Acquisition																								
+ 6.1 - Right of Way Guideline Manual																								
	28SEP09	29APR11	8	0	8	0	4	0																
+ 6.2 - Standard Forms & Documents																								
	28SEP09	29APR11	8	0	8	0	4	0																
+ 6.3 - Acquisition Strategy & Protocols																								
	28SEP09	01JUL10	5	0	5	0	3	0																
+ 6.4 - Identify Priority Acquisition																								
	28SEP09	30JUN10	3	0	3	0	2	0																
+ 6.5 - GIS database for Real Estate																								
	28SEP09	30JUN10	3	0	3	0	2	0																
Task 7 Railroad Sys Operation & Revenue Mgmt																								
+ 7.1 - Definition of Rail Sys Op Mgt Requirements																								
	01SEP09	30JUN13	5	0	16	0	8	0																
+ 7.2 - Operation Planning																								
	01SEP09	30JUN13	5	0	16	0	8	0																

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									J	A	S	O	N	D	J	F	M	A	M	J	
									+ 7.3 - Ridership and Revenue Forecast Updates												
	01SEP08A	15AUG13	7	5	16	0	8	0													
Task 8 Construction / Procurement Documents																					
8.1 - Construction																					
+ 8.1.1 - Staging / Procurement Report																					
	31AUG09	30JUN13	5	0	0	0	0	0													
8.2 - Delivery																					
+ 8.2.1 - Staging / Procurement Monthly Assessment																					
	31AUG09	30JUN13	5	0	0	0	0	0													
8.3 - Procurement Documents																					
+ 8.3.1 - Procurement Documents																					
	01OCT09	30APR13	0	0	0	0	0	0													

Work & Deliverables Description	Start Date	Finish Date	Total Plan Pct Cmpl	Total Phys Pct Cmpl	FY 09/10 Plan Pct Cmpl	FY 09/10 Phys Pct Cmpl	Aug. '09 Plan Pct Cmpl	Aug. '09 Phys Pct Cmpl	FY10											
									J	A	S	O	N	D	J	F	M	A	M	J
									Preliminary Engineering and EIR / EIS Teams											
Regional Design Consultants																				
H1 - San Francisco to San Jose -- HNTB																				
+ Alternatives Development																				
	17NOV08A	30JUN10	40	35	45	40	5	5												
+ EIS Technical Reports																				
	13FEB09A	04JUL11	20	20	25	25	5	5												
+ Engineering 15% Design Submittal																				
	31DEC08A	26NOV10	15	15	25	25	10	10												
+ Engineering 30% Design Submittal																				
	29NOV10	06JAN12	0	0	0	0	0	0												
+ Environmental Impact Report / Statement																				
	31JUL09A	23NOV11	10	10	10	10	10	10												
+ NOD / ROD																				
	27OCT11	30DEC11	0	0	0	0	0	0												
+ H1 - Total Project Percent Complete																				
	16OCT08A	06JAN12	15	13	10	10	10	10												
G1 - San Jose to Merced -- PARSONS																				
+ Alternatives Development																				
	07JAN09A	02DEC09	60	58	30	35	15	20												
+ EIS Technical Reports																				
	31AUG09	03DEC10	0	0	0	0	0	0												
+ Engineering 15% Design Submittal																				
	01MAY09A	29OCT10	20	18	16	14	8	6												
+ Engineering 30% Design Submittal																				
	12OCT10	14FEB12	0	0	0	0	0	0												
+ Environmental Impact Report / Statement																				
	31AUG09	30DEC11	0	0	0	0	0	0												
+ NOD / ROD																				
	05DEC11	07FEB12	0	0	0	0	0	0												
+ G1 - Total Project Percent Complete																				
	10DEC08A	07FEB12	4	3	12	6	6	3												

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									J	A	S	O	N	D	J	F	M	A	M	J
E1 - Merced to Fresno -- AECOM																				
+ Alternatives Development																				
	05NOV08A	04DEC09	70	75	40	45	10	15												
+ EIS Technical Reports																				
	03DEC08A	05MAY10	35	30	20	10	10	5												
+ Engineering 15% Design Submittal																				
	10AUG09A	04JUN10	5	2	5	2	5	2												
+ Engineering 30% Design Submittal																				
	25MAR10	28DEC11	0	0	0	0	0	0												
+ Environmental Impact Report / Statement																				
	09MAR10	25JAN12	0	0	0	0	0	0												
+ NOD / ROD																				
	14DEC11	20MAR12	0	0	0	0	0	0												
+ E1 - Total Project Percent Complete																				
	12FEB07A	20MAR12	25	21	5	4	2	1												
D2 - Fresno to Bakersfield -- URS																				
+ Alternatives Development																				
	24SEP08A	22FEB10	60	75	20	25	6	6												
+ EIS Technical Reports																				
	03AUG09A	24MAR11	5	4	8	7	5	5												
+ Engineering 15% Design Submittal																				
	13APR09A	31OCT11	15	11	8	7	3	3												
+ Engineering 30% Design Submittal																				
	04AUG10	05MAY12	0	0	0	0	0	0												
+ Environmental Impact Report / Statement																				
	26JAN10	13FEB12	0	0	0	0	0	0												
+ NOD / ROD																				
	27JAN12	30MAR12	0	0	0	0	0	0												
+ D2 - Total Project Percent Complete																				
	12FEB07A	30MAR12	25	22	17	16	8	8												

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									J	A	S	O	N	D	J	F	M	A	M	J
D1 - Bakersfield to Palmdale -- URS																				
+ Alternatives Development																				
	10JUN09A	23APR10	30	30	30	30	8	8												
+ EIS Technical Reports																				
	20JUL09A	22NOV11	5	3	12	8	4	4												
+ Engineering 15% Design Submittal																				
	16JUL09A	08SEP11	7	7	17	13	4	4												
+ Engineering 30% Design Submittal																				
	27JUL10	20JUN12	0	0	0	0	0	0												
+ Environmental Impact Report / Statement																				
	01OCT09	11JUL12	0	0	0	0	0	0												
+ NOD / ROD																				
	12JUL12	22AUG12	0	0	0	0	0	0												
+ D1 - Total Project Percent Complete																				
	12FEB07A	22AUG12	10	8	17	16	8	8												
A1 - Palmdale to Los Angeles -- HMM																				
+ Alternatives Development																				
	24OCT08A	16NOV09	75	70	78	37	32	14												
+ EIS Technical Reports																				
	30APR09A	06APR10	25	22	9	8	6	5												
+ Engineering 15% Design Submittal																				
	01JUL09A	21JUN10	10	10	9	2	5	1												
+ Engineering 30% Design Submittal																				
	13MAY10	19OCT11	0	0	0	0	0	0												
+ Environmental Impact Report / Statement																				
	27JAN10	23AUG11	0	0	0	0	0	0												
+ NOD / ROD																				
	26SEP11	25NOV11	0	0	0	0	0	0												
+ A1 - Total Project Percent Complete																				
	12JAN07A	25NOV11	20	17	11	4	6	2												

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									J	A	S	O	N	D	J	F	M	A	M	J	
									B1 - Los Angeles to Anaheim -- STV												
+ Alternatives Development																					
	02SEP08A	13APR09A	100	100	0	0	0	0													
+ EIS Technical Reports																					
	06APR09A	28DEC09	65	65	90	65	5	5													
+ Engineering 15% Design Submittal																					
	18FEB08A	31DEC09	65	65	90	65	5	5													
+ Engineering 30% Design Submittal																					
	31AUG09	26APR11	0	0	0	0	0	0													
+ Environmental Impact Report / Statement																					
	08APR09A	10NOV10	20	15	50	50	5	5													
+ NOD / ROD																					
	13DEC10	24JAN11	0	0	0	0	0	0													
+ B1 - Total Project Percent Complete																					
	29DEC06A	26APR11	50	50	90	65	5	5													
C1 - Los Angeles to San Diego -- HNTB																					
+ Alternatives Development																					
	01SEP08A	30JUN10	70	40	15	10	5	0													
+ EIS Technical Reports																					
	01JUL10	11JUL13	0	0	0	0	0	0													
+ Engineering 15% Design Submittal																					
	15JUL10	15OCT11	0	0	0	0	0	0													
+ Engineering 30% Design Submittal																					
	15FEB12	15MAY13	0	0	0	0	0	0													
+ Environmental Impact Report / Statement																					
	15OCT11	01OCT13	0	0	0	0	0	0													
+ NOD / ROD																					
	01OCT13	30NOV13	0	0	0	0	0	0													
+ C1 - Total Project Percent Complete																					
	06FEB07A	30NOV13	5	4	16	10	8	6													

Start Date 27AUG07
 Data Date 31AUG09
 Run Date 01OCT09 14:40

Executive Summary
August, 2009
 Project Name: 09AU

California High Speed Train Project
Program Management - PB Americas
 Program Summary Schedule

 Work to Go
 Baseline
 Progress Bar

Executive Summary			
Date	Revision	Checked	Approved
30SEP09	August 2009 R5a	bh	JV

Executive Summary Schedule

Work & Deliverables Description	Start Date	Finish Date	Total Plan Pct Cmpl	Total Phys Pct Cmpl	FY 09/10 Plan Pct Cmpl	FY 09/10 Phys Pct Cmpl	Aug. '09 Plan Pct Cmpl	Aug. '09 Phys Pct Cmpl	FY10											
									J	A	S	O	N	D	J	F	M	A	M	J
									E2 - Merced to Sacramento-- AECOM											
+ Alternatives Development																				
	29JUN09A	08SEP10	10	4	10	4	6	3												
+ EIS Technical Reports																				
	31JUL09A	12NOV10	10	4	4	2	6	3												
+ Engineering 15% Design Submittal																				
	31JUL09A	26APR11	2	2	4	2	4	2												
+ Engineering 30% Design Submittal																				
	12FEB12	08MAR13	0	0	0	0	0	0												
+ Environmental Impact Report / Statement																				
	14OCT10	06DEC12	0	0	0	0	0	0												
+ NOD / ROD																				
	06DEC12	06FEB13	0	0	0	0	0	0												
+ E2 - Total Project Percent Complete																				
	12FEB07A	06FEB13	4	2	2	1	2	1												
F1 - Altamont Pass -- AECOM																				
+ Alternatives Development																				
	14NOV08A	01JUL10	25	0	0	0	0	0												
+ EIS Technical Reports																				
	01JUL10	24NOV11	0	0	0	0	0	0												
+ Engineering 15% Design Submittal																				
	01JUN09A	07JUL11	15	0	0	0	0	0												
+ Engineering 30% Design Submittal																				
	16DEC11	02JAN13	0	0	0	0	0	0												
+ Environmental Impact Report / Statement																				
	18FEB11	21FEB13	0	0	0	0	0	0												
+ NOD / ROD																				
	22FEB13	22APR13	0	0	0	0	0	0												
+ F1 - Total Project Percent Complete																				
	21NOV08A	22APR13	18	0	0	0	0	0												

Start Date 27AUG07
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Executive Summary
 August, 2009

Project Name: 09AU

California High Speed Train Project
 Program Management - PB Americas

Program Summary Schedule

Work to Go
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 Progress Bar

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