



**Regional Consultant
Monthly Progress Report
Bakersfield to Palmdale**

**For the Period of
May 25 through June 30, 2012**

**Prepared by
Scott Moorhouse, Project Manager**

**Submitted
July 13, 2012**

1) Key Issues and Areas of Concern

- a) The continued lack of an identified power source and transmission line for bringing traction power to isolated mountain areas of this project section will affect the project schedule. The spring 2012 survey season has ended and the environmental team cannot complete the additional environmental field surveys needed to cover currently unknown alternative alignments for an electrical transmission line and associated access roads. Input from Southern California Edison (SCE) is essential for identifying reasonable and likely power source and transmission line route(s) to one or more high-speed train (HST) substations in the Tehachapi Mountains. In the long term, the lack of an identified power source and transmission line route in the Environmental Impact Report/Environmental Impact Statement (EIR/EIS) could affect the construction schedule. To date the JV has only been authorized to discuss with SCE the impact of the HST on SCE's existing infrastructure, and a number of useful meetings with SCE have already taken place to identify where HST might affect SCE's existing transmission lines. Action rests with the EMT to determine in conjunction with SCE the locations of the HST substations and SCE switching stations together with the routes of new transmission lines dedicated to serving the HST substations.
- b) On June 30, 2011, the Joint Venture (JV) received Fiscal Year 2011/2012 (FY11/12) Notice to Proceed 1 (NTP-1), which authorized a budget of \$6,500,000 as of July 1, 2011. NTP-2 for \$400,000 was authorized on June 22, 2012. The JV prepared four versions of the FY11/12 Annual Work Program (AWP) and submitted them to the Program Management Team (PMT)/California High-Speed Rail Authority (Authority). Although verbal notice that FY11/12 AWP Version 4 had been "deemed approved" was given through the PMT to the JV on November 17, 2011, **no formal comments or written authority to proceed with the proposed work plan have been received.** For the June 2012 Progress Report and Invoice, AWP Version 4 budgets are used as the basis of reporting work completed to date. Work tasks not included in AWP Version 4 are summarized in Section 6 of this report and will be incorporated, as appropriate, through the change control procedure.
- c) The JV continues to wait for a reply to the Authority's request made in November 2011 to the California Energy Commission for GIS data about natural gas and major electrical distribution lines. Obtaining this information as soon as possible would greatly assist the JV in completing the public utilities section of the draft EIR/EIS.
- d) The State of California budget for Fiscal Year 2012/2013 (FY12/13) provided only \$390,000 in funding to the Bakersfield to Palmdale section. The FY 12/13 AWP Version 3 budget submitted to the Authority was for \$16,296,411. A reduction in funding awarded for FY12/13 will severely impact the scope and schedule provided in FY12/13 AWP Version 3.
- e) The JV has identified additional key Tier 1 personnel who are required to augment or replace staff working on the project. Personnel Request Forms (PRFs) have been submitted, with the oldest dating back to October 26, 2011, for Bob Shulock of Hatch Mott MacDonald, as well as the Deputy Engineering Manager, Chris Adams. The delay in approving these personnel is creating a hardship to the JV and is creating challenges related to allocating resources to keep the project on schedule.

2) **Financial Reporting**

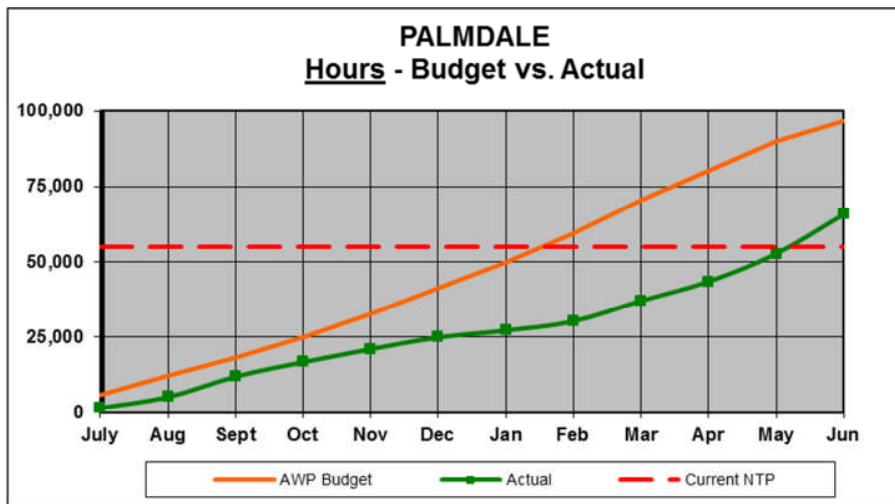
On June 30, 2011, NTP-01 for the Bakersfield to Palmdale (BP) section was awarded in the amount of \$6,500,000 for FY11/12. NTP-02 was awarded on June 22, 2012, for an additional \$400,000. The request for NTP-03 will be submitted to account for trailing FY11/12 expenditures. The FY11/12 AWP Version 4 budget of \$12,500,000 was used as the basis for reporting in the invoice and in the tables and charts below.

a. **Staff Hours Worked**

The period of performance extends from May 26 through June 30, 2012. Actual hours versus plan by task for this reporting period and for the cumulative reporting period since July 1, 2011, are shown in the following table and chart. Figures for this current reporting period include actual hours for subconsultants.

Hours Worked

PALMDALE Task	June 2012			Cumulative Since 7/1/11		
	Plan	Actual	Pct	Plan	Actual	Pct
Task 1 - Project Mgt.	1,164	1,611	138%	13,133	6,292	48%
Task 2 - Public Outreach	403	446	111%	5,000	2,456	49%
Task 3 - Project Definition	-	-	0%	1,520	2,141	141%
Task 4 - Engineering	3,499	6,222	178%	33,682	18,060	54%
Task 5 - Environmental	1,840	4,863	264%	41,668	37,001	89%
Task 7 - DEIR/EIS	123	-	0%	1,875	-	0%
Total	7,029	13,142	187%	96,878	65,950	68%

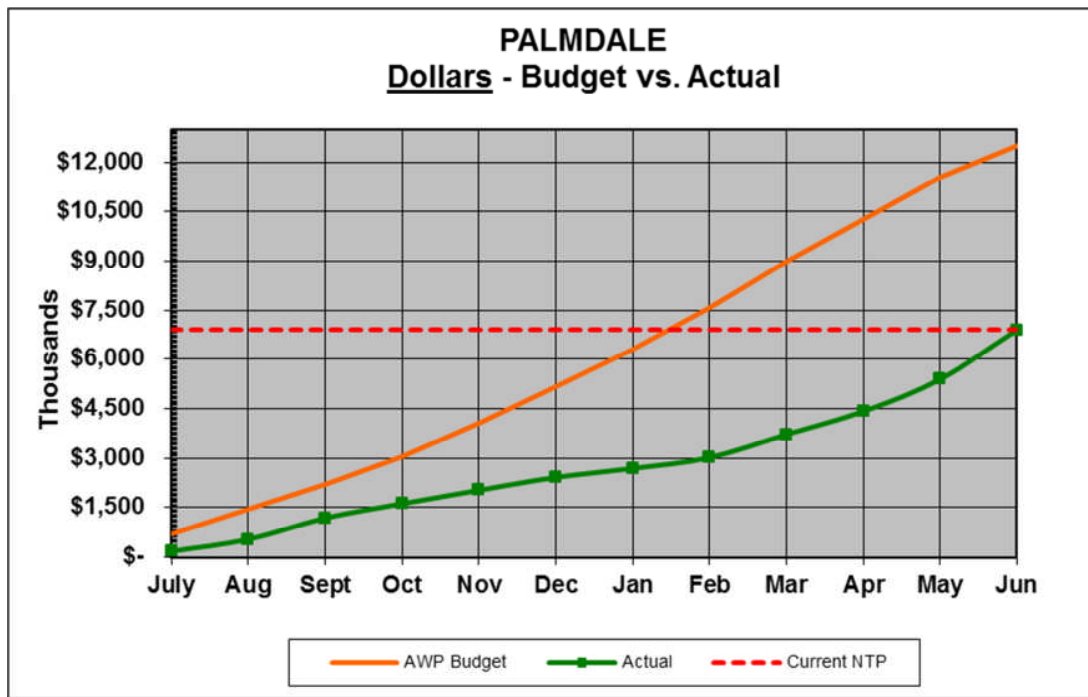


b. Dollars Spent

The period of performance extends from May 26 through June 30, 2012. Actual dollars versus plan by task for this reporting period and for the cumulative reporting period since July 1, 2011, are shown in the following table and chart. Figures for this current reporting period include actual expenditures for subconsultants.

Dollars Spent

PALMDALE Task	June 2012			Cumulative Since 7/1/11		
	Plan	Actual	Pct	Plan	Actual	Pct
Task 1 - Project Mgt.	\$ 159,783	\$ 247,274	155%	\$ 1,759,372	\$ 846,620	48%
Task 2 - Public Outreach	\$ 43,985	\$ 50,395	115%	\$ 546,676	\$ 305,641	56%
Task 3 - Project Definition	\$ -	\$ -	0.0%	\$ 148,310	\$ 236,650	160%
Task 4 - Engineering	\$ 515,460	\$ 796,498	155%	\$ 4,956,505	\$ 2,455,665	50%
Task 5 - Environmental	\$ 206,102	\$ 405,914	197%	\$ 4,802,298	\$ 3,055,422	64%
Task 7 - DEIR/EIS	\$ 17,253	\$ -	0%	\$ 286,839	\$ -	0%
Total	\$ 942,583	\$ 1,500,081	159%	\$ 12,500,000	\$ 6,899,997	55%



3) Deliverable Status and Summary Schedule

Please see the attached supplemental tables and figures on the current schedule and status of deliverables:

- a) BP-URS-Sch-Env Milestones-Jun2012.xls "Measles" Chart
- b) BP-URS-Deliverables Status-Jun 2012.xls Deliverables Status Table
- c) BP-URS-Sch-Summary-Jun 2012.pdf Summary Schedule
- d) BP-URS-Earned Value Report-Jun 2012.pdf/.xls Earned Value Report
Hours/Dollars for the Fiscal Year
Hours/Dollars for the Entire Project

4) **Key Developments and Accomplishments**

On November 17, 2011, the JV was given verbal notice through the PMT that FY11/12 AWP Version 4 had been “deemed approved.” However, the JV has not received written approval. Mike Gillam, PMT Deputy Director-South, directed the team to use AWP Version 4 as the basis for the Monthly Progress Report and invoice.

Task 1 Management

1.1 PM/PM Plan/Meetings/Coordination

- a) Prepared and delivered FY12/13 AWP Version 3 on June 22, 2012.
- b) Continued coordination with Mike Gillam, PMT Deputy Director-South, and Don Currie, PMT Regional Manager.
- c) Continued biweekly regional consultant (RC) management team meetings with the PMT.
- d) On June 15, 2012, participated in the PMT workshop for Southern California segments.

1.2 Quality Assurance/Quality Control (QA/QC)/Safety/Risk

- a) Participated in the PMT QA/QC audit on June 19, 2012.
- b) Verified completion of QA/QC reviews of deliverables.
- c) Held QA/QC team conference calls to inform members of project status.

1.3 Document Control

- a) Continued review of JV website functionality and document control procedures to optimize performance and usability.
- b) Continued to manage the web-based system to conduct internal reviews of documents and work products as specified in the Document Control Plan.
- c) Continued to post documents for PMT and Authority review on ProjectSolve.

1.4 Schedule, Budget, Progress Reports

- a) Continued management of work progress, schedule, cost/budget, and deliverables tracking.
- b) Submitted multiple Personnel Request Forms (PRFs) packages and Travel Request Forms (TRFs), and received provisional approval.
- c) Submitted updated schedule on June 11, 2012, and progress report and invoice on June 12, 2012.
- d) Worked with Authority staff to resolve short-pay issues and provide information as requested.

1.5 Risk Management

- a) Will provide update as needed per PMT direction.

Task 2 Public Outreach**2.1 Participation Plan**

- a) No activity this period.

2.2 CHSTP Agency Coordination Plan

- a) Participated in biweekly conference calls, hosted by Valerie Martinez, with the Southern California Regional Outreach Team to coordinate outreach activities.
- b) Participated in the biweekly PMT/JV BP project management meeting.
- c) Planned for a future BP alignment driving tour with federal and state regulatory representatives scheduled for July 23, 24, and 25, 2012.

2.3 Maintain Stakeholder Database

- a) Continued ongoing updates to BP stakeholder contact database in preparation for future direct-mailing activities.
- b) Responded to stakeholder requests for information.

2.4 Memoranda of Understanding

Not applicable.

2.5 Stakeholder Meetings and Briefings

- a) On June 26, 2012, conducted a stakeholder meeting with Plant 42 and the defense contractors (Northrop Grumman, Lockheed Martin, Boeing and the National Aeronautics and Space Administration [NASA]) to discuss noise and vibration impacts on their facilities from the BP proposed alignment. The meeting focused on vibration testing methodologies and site access issues for field crews.
- b) On June 26, 2012, conducted a stakeholder meeting with Sempra Gas Company to discuss the proposed HST alignment crossing of Sempra infrastructure in the Mojave and Antelope Valley sub-sections.
- c) On June 27, 2012, conducted a stakeholder meeting with SCE to discuss proposed HST alignment crossings of SCE infrastructure in the Antelope Valley and to discuss future utility expansion plans that SCE has in the region.
- d) On June 28, 2012, conducted a stakeholder meeting with Los Angeles Department of Water and Power (LADWP) to discuss proposed HST alignment crossings of LADWP infrastructure in the Mojave sub-section.
- e) Planned for stakeholder meetings to be scheduled in July for the Antelope Valley sub-segment including the Los Angeles County Sanitation District (LASD), and Tehachapi wind power companies.

2.6 Other Outreach

- a) Held weekly BP Outreach Team Coordination/Strategy conference call.
- b) Participated in the weekly Central Valley Outreach Team Coordination conference call.
- c) Planned and coordinated logistics for future stakeholder outreach activities.

2.7 Create/Distribute Media/Newsletters

- a) Further refined text for the updated BP fact sheet and other public information materials.

Task 3 Project Definition

Task is complete.

Task 4 Engineering**Task 4.1 – Infrastructure 15%****4.1.01 Survey and Mapping**

- a) The laser identification detection and ranging (LiDAR) survey was flown; delivery of aerial photography has been delayed until July 2012.

4.1.02 Alignment

- a) Held a workshop on June 20, 2012, to update the Environmental team, PMT and Engineering Management Team (EMT) about the progress of developing the alignment and profiles.
- b) Continued to design the 15% alignment and profile for all subsections. The final determination of the profiles, which impacts on the locations of the tunnel portals, viaduct and bridge abutments, confirming clearances to the undersides of structures, etc. awaits the LiDAR and data gathering monitor (DGM) data. The commitment to refine the right of way (ROW) and environmental footprint by the middle of July 2012 is heavily dependent on the availability of reliable and accurate original ground data, particularly for the HST sections in the Tehachapi Mountains.
- c) The alignment refinements of the Edison North subsection were impacted by the discovery of research related to the Edison Fault, which coincides with the EN subsection, that the fault is potentially hazardous. To comply with the technical memoranda, the JV concluded that an elevated profile through the town of Edison was no longer viable.. Both of the Edison North alternatives included in the Supplemental Alternatives Analysis (SAA) were elevated in this area to avoid impacts on a school, access to and from the town and the disruption of access to the heavily-used packaging and loading facilities between Edison Highway and the Union Pacific Rail Road (UPRR). The issues concerning the practicality of carrying an Edison North alternative will be further addressed in the Checkpoint B process.
- d) The Edison Fault was also crossed by the Edison South alignment to the east of Edison. The JV proposed any segment crossing the Edison Fault should be at-grade only. As a result, the fully elevated profile alternative (ES2) for the Edison-South alignment will be revised to an at-grade profile for the segment that crosses the Edison Fault.
- e) The team continued refining the TE-3 alternative with the objectives of reducing tunnel lengths and removing obstructions to existing drainage crossings, access tracks and cattle grazing. However, the TE-3 alternative, as recommended in the SAA, also encountered wider fault zones after applying seismic buffer zones to the Tehachapi Creek Fault. As a result, both TE-3 and TE-1 optimized shared around 7 miles with the fault zone, mostly below

grade or in tunnel. This led to the development of two new alignments in the vicinity of the Tehachapi Creek fault: TE-4 and TE-5. The new alignments avoid not only the majority of the Tehachapi Creek fault zone but also a large site zoned for development by the City of Tehachapi. The status and hazardous potential of a north/south fault trace, which is intercepted by the new tunnel alignments, is under study. If found to be potentially hazardous, the options will be to either open out the tunnel to cutting or provide a chamber within the tunnel at the trace's crossing. If the trace is found to be benign, no mitigation measures will be necessary.

- f) The MO1 track profile adjacent to the Garlock Fault was raised to clear the drainage crossing adjacent to Cameron Canyon Road. The alignment will be at-grade across the fault, although a structure will be required to cross Cameron Canyon Road. A revised profile with a flatter gradient through the long tunnel south of Cameron Canyon Road was also developed, reducing the length of the former 3.3-mile-long tunnel by approximately 4,000 feet at the south end. The JV stated that revised environmental footprint would be required at the relocated southern tunnel portal.
- g) The implications of slowly turning turbines standing up to 300' tall on the reliability, availability, maintainability and safety of the HSR are subject to continuous assessment. The Kern County Planning Ordinance stipulates the minimum setbacks for turbines for roads, residences, railroads, etc. Although the authors of the Ordinance might not have had in mind a high-speed passing close to wind turbines. The JV is aware that the PMT/EMT is developing criteria associated with HST in the proximity of wind turbines and that this criteria will be necessary to complete the 15% design in the wind farm area. The JV expects this information no later than the in-progress reviews scheduled for mid-August.
- h) On June 19, 2012, the team met with Metro and Metrolink to explain the implications for the Metro station in Lancaster due to the Antelope Valley subsections. It is likely that relocation of the Metro station concourse, parking and transport interchange to the eastern side of the UPRR will be necessary. Fortunately, this area has been zoned by the City of Lancaster as a transit-oriented development site, so the relocation of the station facilities would appear to be compatible with the city's long term planning. The team will request inclusion of the Fresno/Bakersfield Station Planning team in the Bakersfield/Palmdale Resource Pool to present concepts to both the City and Metro/Metrolink, showing future layouts for the station and supporting infrastructure.
- i) On June 26, 2012, the team met with the Plant 42 defense contractors to consider the way forward for vibration modeling. The contractors were also informed of the latest status of the alignment and profiles in front of Plant 42. The contractors were advised that an earlier request from the Air Force to lower the alignment below grade in front of the Palmdale Airport runway might not be achievable due the necessity of the high-speed train to resume an at-grade profile at the approaches to the Palmdale East and West Station alternatives.
- j) All Antelope Valley subsection alternatives will interfere with the settlement ponds at the LA County's Sanitation Plant between Rosamond and

Lancaster. Stakeholder meetings with the concerned agency are planned for July.

4.1.03 Temporary Construction Facilities

- a) As the alignment and profiles are subject to on-going design development, along with the locations of tunnel portals, viaduct and bridge abutments, and systems sites, the locations and sizes of lay down and staging areas and back up works sites are subject to continuous review.
- b) Provided data relating to construction waste, cut and fill quantities and material haul distances for air quality analysis to the environmental team.
- c) Continued to review staging areas and lay down area.

4.1.04 Stations

No stations in this section.

4.1.05 Bridges and Elevated Structures

- a) On June 20, 2012, held a workshop with the EMT to explain the concepts and strategy for the preliminary design of tall structures.
- b) Prepared a PowerPoint presentation and exhibits describing the tall structures for the June 20 workshop with the EMT.
- c) Presented two tall structure frame concepts as tall as 300 feet at the tallest columns to the EMT. One concept assumed a 320-foot-long frame comprising two 160-foot-long spans, proposed for structures up to 200 feet high. The second concept assumed a 1,100-foot-long frame comprising 250-foot and 300-foot-long spans for structures exceeding 200 feet.
- d) Longer spans will result in a more cost-effective and aesthetically pleasing structure. The JV explained the benefits of bifurcated columns, as presented in both alternatives, and pointed out the advantages of being able to accommodate thermal movements while transmitting loads to the column. Additionally, the bifurcated columns are tunable in terms of dynamic response by varying the lengths of the bifurcated section by individual column.
- e) The EMT requested further supporting analysis about some of the assumptions used to develop the design concepts. Of particular interest to the structures team was confirmation from the EMT that no rail expansion joints would be permitted and that preliminary designs may proceed on the basis that the track specification would assume reduced toe load clips.
- f) The EMT also agreed to the JV adopting the 43-foot-wide typical bridge section (as per the 30% design section) for the BP's 15% design.

4.1.06 Tunnels

- a) Continued to develop the tunnels report.
- b) Prepared a presentation for the EMT about design development of the tunnels proposed for the BP section.

4.1.07 Buildings

- a) No activity this period.

4.1.08 Grading/Earthworks and Borrow Sites

- a) Began development of a memorandum documenting the pros and cons of opening up tunnels in the Tehachapi Mountains.

4.1.09 Hydrology/Hydraulics/Drainage

- a) Continued preliminary investigations into the consequences of alignment options Antelope East (AE) and Antelope West (AW) impacting the settlement ponds at the LASD water reclamation plant between Rosamond and Lancaster.
- b) Investigated impacts of the alignments on the floodplains and watercourses. Continued investigating the consequences of the AE and AW alignments on the settlement ponds at the LASD water reclamation plant between Rosamond and Lancaster.

4.1.10 Utilities

- a) Stakeholder meetings were held with Southern California Gas, SCE and the LDWP. Several unknown utility crossings (existing and proposed) were identified during the sessions. Many useful contacts were established for the future exchange of information pertaining to the impact of the alignment on utilities.
- b) The JV was alerted by SCE of the lengthy procedures power companies are obliged to follow to secure California Public Utilities Commission (PUC) approval and California Environmental Quality Act (CEQA) clearance when contemplating alterations to their infrastructure, such as transmission line relocation, new connections, switching stations, etc.

4.1.11 Geotechnical

- a) Continued work on the Geologic and Seismic Hazard Report including the preparation of 15% design level seismic design criteria.
- b) Executed the geologic reconnaissance survey between June 4 and June 18, 2012.
- c) Initiated data reduction of the geologic reconnaissance survey.
- d) Evaluated Edison, Tehachapi Creek, Ansel and Willow Springs – Rosamond Faults to determine capability classifications. All these faults were determined to be capable and potentially hazardous.
- e) Created PowerPoint presentation on Fault Evaluation Study and presented to the PMT on June 20, 2012.
- f) Reviewed draft Geology, Soil and Seismicity Technical Report in support of environmental team.
- g) Provided geotechnical support to the structures and tunnels teams.

4.1.12 Seismic

- a) No activity this fiscal year.

4.1.13 Right-of-Way

- a) Reviewed the ROW files from Metro. Continued investigating ownership of the former ROW belonging to the Southern Pacific between Lancaster and Palmdale, now divided into separate ROWs owned by the UPRR and the Southern California Regional Rail Authority (SCRRA).

4.1.15 Roadway Plans and Structures

- a) Meeting held with the California Department of Transportation (Caltrans) on June 14, 2012, to review the impacts of the alignment (ES3 and ES4) on State Route 58 near Edison.
- b) Continued review of roadway impacts in the Edison and Antelope Valley subsections and continued analysis of options for access roads to tunnel portals, bridge abutments and systems sites in the Tehachapi sections.

Task 4.2 – Systems 15%**4.2.1 Traction Power**

- a) Proposed new locations for the systems sites based on the latest alignments and profiles. However, the determination of the traction power substation (TPSS) sites awaits direction from the EMT.

4.2.2 PUC/Connections

- a) Continued investigations of potential connections between TPSS sites with known high-voltage transmission lines.

4.2.4 Communications

- a) Continued investigations into locating radio sites between TPSS sites and tunnel portals.

4.2.5 Trackside Services

- a) Continued investigations into locating trackside interlocking houses controlling turn-outs and crossovers.

Tasks 4.3 through 4.6 – Not Used**Tasks 4.7 – Capital Cost Estimates**

- a) Reviewed the cost implications of phased implementation.

Task 5 Environmental Analysis**Task 5.1 – Management and Coordination**

- a) Continued project management tasks and team coordination.
- b) Continued coordination of permissions to enter for project area properties.
- c) Continued coordination of project data needs with engineering, GIS, and the Los Angeles to Palmdale team.
- d) Held biweekly project status meetings on June 6 and 20, 2012.

Administrative Record

- a) Continued preparations for compiling the administrative record.

Integration Management

- a) Facilitated integration meetings and teleconferences to review outstanding data requests, and facilitated scheduling and delivery of data requests between engineering and environmental teams.
- b) Coordinated interdisciplinary reviews and data sharing of seismic and geological data and technical reports.

- c) Participated in weekly meetings with the Federal Railroad Administration, Authority, the Attorney General's office, and the PMT.
- d) Coordinated engineering-recommended alignment adjustments for seismic and Bureau of Land Management property avoidance in the Tehachapi Mountains, near Edison, and near Mojave.
- e) Continued coordination of proposed alternative footprint changes to eliminate the Edison North alternatives from further consideration, and to explore sites for a relocation of the Metrolink station in Lancaster, the maintenance of infrastructure facility near Palmdale, and possible storage tracks south of Bakersfield.
- f) Facilitated transfer of construction equipment and preliminary quantities estimates from the engineering team for use in the environmental impact assessment.

5.2 Technical Reports (TRs)

5.2.0 No Action/No Project Alternative

- a) Coordinated with Cumulative Section author to develop a GIS map of the transportation plans.
- b) Submitted draft section to PMT on June 4, 2012.
- c) Received comments on June 14, 2012 and began to revise section.

5.2.01 Transportation and Traffic Analysis TR

- a) Received updated Bakersfield traffic data. Final Draft will not be available until July 2012.
- b) Revised Bakersfield station tables based on addition/changes from Bakersfield Hybrid Alignment.
- c) Incorporated updated/modified Bakersfield Station Environmental Consequences Section.

5.2.02 Air Quality TR

- a) On June 22, 2012, received year 2009 vehicle miles traveled data and associated emission rates.
- b) Received construction phase engineering data for review and will then forward to PMT for construction emission analysis.

5.2.03 Noise and Vibration TR

- a) Conducted transfer mobility testing at nine sites along the project alignment between East Bakersfield and Lancaster.
- b) Met with the City of Palmdale and the four defense contractors at Plant 42 (Boeing, Lockheed Martin, NASA, and Northrop Grumman) to discuss the vibration testing at several locations. The JV is to provide preliminary vibration data from train activities on the existing rail line before the Plant 42 contractors agree to allow the JV on their property to conduct the testing.
- c) Coordinated with the City of Palmdale to obtain a Right of Entry to make measurements on their property adjacent to the Plant 42 property.
- d) Continued to draft Effected Environment section of the TR.

5.2.04 Biological Resources and Wetlands TR

- a) Finalized and detail checked digitization of habitat mapping, wetlands, mapping and vegetation communities mapping.
- b) Continued development of GIS model for generating impact calculations for wildlife and other resource areas.
- c) Refined MaxEnt analysis to be used for estimating impacts to special status plant species.
- d) Began revision of Affected Environment and Methods sections.
- e) Conducted reconnaissance trip to the project site to verify 2012 field survey results.
- f) Completed wildlife movement surveys and desert tortoise protocol-level surveys.
- g) Continued digitization from wetland and botanical surveys, as well as preliminary results from wildlife movement field work and desert tortoise surveys.
- h) Continued revision of Affected Environment and Methods sections. Began development of impacts discussion.
- i) Continued preparation of draft Checkpoint B biological resource analysis.

5.2.05 Hydrology and Water Quality TR

- a) Continued impact analysis and began drafting impacts section of the TR.

5.2.06 Geology, Soils, and Seismicity TR

- a) Completed draft TR, responded to comments from independent technical review (ITR)/detail check, submitted to PMT for review and comment.

5.2.07 Hazardous Wastes and Materials TR

- a) Re-evaluated educational facility locations based on most recent footprint designations.
- b) Assessed impacts and mitigation measures for alignment alternatives.
- c) Continued to reconcile TR with comments received from the Attorney General's office and Federal Railroad Administration regarding the Fresno to Bakersfield section draft EIR/EIS Hazardous Materials section.
- d) Completed evaluation of field reconnaissance and regulatory agency data for all alignment alternatives.
- e) Draft TR submitted for ITR/detail check.

5.2.08 Community Impact Assessment (CIA) TR

- a) Began collecting commercial and industrial business information for businesses displaced (name, address, North American Industry Classification System [NAICS] code, employees and sales).
- b) Collected residential vacancy data to identify potential existing replacement units in communities, began residential vacancy gap analysis.
- c) Conducted inventory of residential, commercial and industrial structures on parcels intersected by the project footprint.
- d) Made parcel database revisions to capture changes in properties.
- e) Calculated total displacements by property type, alignment and community.

- f) Began community disruption/division impact analysis.
- g) Created list of facilities with special relocation needs and sent to engineers for review.
- h) Began CIA residential and commercial/industrial property impact section being drafted.
- i) Completed draft of CIA Affected Environment section, incorporated responses to comments submitted to tech editing.
- j) Completed environmental justice verification process with local planners per PMT instruction.

5.2.09 Relocation Impact Assessment TR

- a) Completed revisions to Draft Relocation Impact Report Affected Environment section base on PMT/ITR/detail check comments.

5.2.10 Aesthetics and Visual Quality TR

- a) Completed initial field work and photography, and simulation base photos.
- b) Continued simulation three-dimensional modeling.
- c) Continued impacts analysis.
- d) Continued drafting Environmental Consequences section.
- e) Continued computer-aided design (CAD) modeling of Antelope Valley and Edison viewpoints.
- f) Initial draft simulations of Edison, Lancaster near completion.

5.2.11 Cultural Resources TR

- a) Continued analysis of background data for the Archaeological Survey Report (ASR), Historical Architecture Survey Report (HASR), and Paleontology Report.
- b) Continued preparation of Department of Parks and Recreation site record forms and context statements for ASR and HASR.
- c) Continued preparation of context data for Paleontological Report.

5.3 EIR/EIS Chapter 3 Sections**5.3.01 Transportation and Traffic Analysis**

- a) No activity this period.

5.3.02 Air Quality

- a) Began drafting the methodologies section.

5.3.03 Noise and Vibration

- a) No activity this period.

5.3.04 EMI/EMF

- a) Completed analysis for draft Affected Environment and Environmental Impact subsections.
- b) Completed draft of EIR/EIS section and submitted to PMT, received comments and began review of comments.

5.3.05 Public Utilities and Energy

- a) Obtained infrastructure information from municipalities, counties and/or districts (City of Tehachapi Public Works and LA County Public Works) as well as high-risk infrastructure including SCE transmission lines and facilities and for wind power electrical transmission lines.
- b) Analyzed partial data obtained for high-risk and some of the low-risk utilities.
- c) Continued coordination with Palmdale Water District, Rosamond Community Services District, Antelope Valley East Kern Water Agency, and LA County Department of Water and Power.
- d) Continued drafting Affected Environment section and collecting data for tables, figures and a Water Usage Memorandum.

5.3.06 Biological Resources and Wetlands

- a) Continue revision of Affected Environment and Methods sections. Began development of impacts discussion.

5.3.07 Hydrology and Water Quality

- a) Reviewed TR for information to integrate into the EIR/EIS section.

5.3.08 Geology, Soils, and Seismicity

- a) Reviewed TR for information to integrate into the EIR/EIS section.

5.3.09 Hazardous Wastes and Materials

- a) Assessed impacts and mitigation measures for alignment alternatives.

5.3.10 Safety and Security

- a) Received comments from PMT and revised draft.

5.3.11 Community Impact Assessment

- a) Forwarded maps of environmental justice impact communities to local jurisdictions for verification.

5.3.12 Growth, Station Planning, and Land Use

- a) Received updated transportation data and integrated into draft section.
- b) Responded to ITR comments and resubmitted for approval.

5.3.13 Agricultural Land

- a) Received PMT comments and began drafting response and revising maps.

5.3.14 Parks, Recreation, and Open Space

- a) No activity this month.

5.3.15 Aesthetics and Visual Quality

- a) No activity this month.

5.3.16 Cultural Resources

- a) Reviewed the Fresno to Bakersfield EIR/EIS section and verification of references.

5.3.17 Regional Growth

- a) Began work on the introductory sections including review of local and regional plans for policies related to growth.

5.3.18 Cumulative Impacts

- a) Continued to collect missing data for the cumulative project list.
- b) Contacted local jurisdictions and agencies for input regarding the cumulative project list.

5.3.19 Section 4(f) and 6(f) Evaluations

- a) Contacted school administrators about potentially impacted school properties and determined that sites are not 4(f) properties.
- b) Began coordination with cultural resources team to determine the baseline currently available for initial 4(f) review.

5) ***Planned Activities for Next Period***

The activities reported in this section as “planned” are based on the scope of work established in FY12/13 AWP Version 3 and the assumption that NTP is received on or before July 2, 2012. The delay in the receipt of the NTP will affect the schedule as provided in the FY12/13 AWP Version 3. Additional work identified that was not included in FY12/13 AWP Version 3 will be documented in Section 6 of next month’s progress report.

Task 1 Management

1.1 PM/PM Plan/Meetings/Coordination

- a) Respond to comments received on FY12/13 AWP Version 3 and finalize FY12/13 negotiations.
- b) Continue to work with PMT, including responding to requests for information/analysis, and conducting biweekly management team meetings.

1.2 QA/QC/Safety/Risk

- a) Continue to monitor QA/QC activities for all deliverables, including verification of adherence to QA/QC Plan before submittal.
- b) Develop and conduct additional QA/QC training for team.

1.3 Document Control

- a) Conduct additional website refresher training for team as needed.
- b) Continue to manage posting and internal review of draft documents and work products as specified in the Joint Venture’s Document Control Plan.
- c) Continue to post documents for PMT and Authority review on ProjectSolve.

1.4 Schedule, Budget, Progress Reports

- a) Submit invoice, progress reports and supplemental information, and schedule.
- b) Prepare final FY11/12 invoice for trailing expenditures.
- c) Work with Authority to clarify process for approval and payment of outstanding non-labor items (such as travel, field supplies).
- d) Prepare and submit PRFs, TRFs, and CRFs, as needed.

1.5 Risk Management

- a) Review and contribute to risk register as needed, per PMT direction.

Task 2 Public Outreach

2.1 Participation Plan

- a) Update Participation Plan as necessary.

2.2 CHSTP Agency Coordination Plan

- a) Continue coordination with the PMT and Southern California Outreach Team.
- b) Continue planning activities for the BP section’s regulatory agency corridor tour scheduled for July 23, 2012.

2.3 Maintain Stakeholder Database

- a) Maintain database of stakeholder comments and inquiries and respond to public requests for information.

2.4 Memoranda of Understanding

Not applicable.

2.5 Stakeholder Meetings and Briefings

- a) Plan, schedule, and facilitate additional stakeholder meetings with identified stakeholder groups, as appropriate, in support of the Administrative Draft EIR/EIS for the BP proposed alignments.
- b) Support the Palmdale to Los Angeles Regional Outreach Team in stakeholder outreach and coordination to Antelope Valley stakeholders.

2.6 Other Outreach

- a) Continue to provide outreach support to the management, engineering, and environmental task teams.
- b) Continue planning and coordination conference calls with the Regional Public Outreach Team and Southern California Regional Outreach Team.
- c) Continue responses to requests for project information from stakeholders and members of the public.

2.7 Create/Distribute Media/Newsletters

- a) Update BP collateral materials.

Task 3 Project Definition

Task is complete.

Task 4 Engineering

Task 4.1 – Infrastructure 15%

4.1.1 Survey and Mapping

- a) Receive LiDAR survey and new aerial photos.

4.1.2 Alignment

- a) Continue to review the environmental footprint and modify as required to avoid faults and other constraints. July 17, 2012, is the target date for updating the environmental team of the requirements for the revised environmental footprint.
- b) Commence cutting the 15% design alignment plan and profile sheets following receipt of LiDAR survey data.
- c) Provide engineering justifications to the environmental team for Checkpoint B.

4.1.3 Temporary Construction Facilities

- a) Continue selecting sites for construction staging, laydown, and pre-casting sites, and incorporate the revisions into the environmental footprint.
- b) Provide support to the structures and tunnels teams with regard to constructability and construction site requirements.

4.1.4 Stations

- a) No stations in this section.

4.1.5 Bridges and Elevated Structures

- a) Submit further analysis to the EMT substantiating the tall structure frame concepts as presented to the EMT during the workshop held on June 20, 2012.
- b) Commence preparing the tall structure 15% design sheets.
- c) Commence drafting the Structures 15% Design Report.

4.1.6 Tunnels

- a) Continue 15% design.
- b) Plan for the workshops with the EMT to discuss tunnels design concepts.
- c) Commence drafting the Tunnels 15% Design Report.

4.1.7 Buildings

- a) Await feedback from the EMT and operations and maintenance team about proposed selection of maintenance of way facility sites.

4.1.8 Grading/Earthworks and Borrow Sites

- a) Continue 15% design.

4.1.9 Hydrology/Hydraulics/Drainage (HH&D)

- a) Begin drafting the preliminary 15% design hydraulics and hydrology reports and figures.

4.1.10 Utilities

- a) Continue the data collection of the high-risk utilities for 15% design.

4.1.11 Geotechnical

- a) Continue to reduce data from geologic reconnaissance of the alignment and begin preparing the Geologic Reconnaissance Data Report.
- b) Prepare Fault Evaluation Design Memorandum to provide geotechnical support to structures, tunnels and environmental teams.
- c) Continue preparing the 15% Geologic and Seismic Hazards Report.
- d) Continue to provide geotechnical support to the structures, tunnels and HH&D teams.

4.1.12 Seismic

- a) No activity this fiscal year.

4.1.13 Right-of-Way

- a) Follow up with the SCRRA regarding right of way ownership in the Antelope Valley.

4.1.15 Roadway Plans and Structures

- a) Continue 15% design.
- b) Prepare roadway designs in Antelope Valley sections for both at-grade and elevation options.

Task 4.2 – Systems 15%**4.2.1 Traction Power**

- a) Continue working on strategy to determine TPSS sites.
- b) Continue 15% design.

4.2.2 PUC/Connections

- a) Continue working on strategy to determine high-voltage connections to TPSS.

4.2.3 OCS – Not used

4.2.4 Communications

- a) Continue 15% design.

4.2.5 Trackside Services

- a) Continue 15% design.

Tasks 4.3 through 4.6 – Not used

Tasks 4.7 – Capital Cost Estimates

- a) Continue to develop construction material and equipment quantities for use in the environmental economic and air quality analyses.

Task 5 Environmental Analysis

Task 5.1 – Management and Coordination

- a) Waiting to coordinate with agencies for Checkpoint B meeting.
- b) Continue management of environmental tasks and team coordination.
- c) Continued data coordination with Palmdale to Los Angeles team.
- d) Continue to support to 15% design development, including evaluating the engineering timeline, status of engineering data needs, and revision of EIR/EIS schedule based on schedule for engineering inputs.
- e) Hold biweekly project team meeting with EIR/EIS task leads.

Integration Management

- a) Continue integration facilitation among public outreach, engineering, and environmental teams.
- b) Monitor design change log, and keep environmental team informed about footprint changes.
- c) Participate in weekly project management and 15% engineering meetings and biweekly meetings with PMT.

Task 5.2 – Technical Reports (TR)

5.2.0 No Action/No Project Alternative

- a) Submit final draft section to PMT.

5.2.01 Transportation and Traffic Analysis TR

- a) Submit draft report for ITR/detail check.

5.2.02 Air Quality TR

- a) No activity planned for this period.

5.2.03 Noise and Vibration TR

- a) Conduct vibration measurements in the city of Palmdale.

5.2.04 Biological Resources and Wetlands TR

- a) Continue updating draft write-up for Biological Resources TR and Wetlands Delineation.

5.2.05 Hydrology and Water Quality TR

- a) Continue analysis and draft updates of Environmental Consequences section of TR.

5.2.06 Geology, Soils, and Seismicity TR

- a) Respond to PMT comments and revise as necessary.

5.2.07 Hazardous Wastes and Materials TR

- a) Receive comments from ITR and revise draft as necessary.

5.2.08 Community Impact Assessment TR

- a) Continue residential vacancy gap analysis.

5.2.09 Relocation Impact Assessment TR

- a) No activity planned this period.

5.2.10 Aesthetics and Visual Quality TR

- a) Continue impact analysis and three-dimensional modeling.
- b) Continue draft write-up and simulation of Antelope Valley.

5.2.11 Cultural Resources TR

- a) Continued analysis of background data for the Archaeological Survey Report (ASR), Historic Architecture Survey Report (HASR), and Paleontology Report.
- b) Continued preparation of Department of Parks and Recreation site record forms and context statements for ASR and HASR.
- c) Continued preparation of context data for Paleontological Report.

Task 5.3 – EIR/EIS Chapter 3 Sections

5.3.0 Administrative Record

- a) Continue preparations for administrative record.

5.3.01 Transportation and Traffic Analysis

- a) Begin drafting Affected Environment section of draft EIR/EIS.

5.3.02 Air Quality

- a) Begin drafting Affected Environment section of EIR/EIS.

5.3.03 Noise and Vibration

- a) No activity planned for this period.

5.3.04 EMI/EMF

- a) Receive comments and revise document as necessary.

5.3.05 Public Utilities and Energy

- a) Prepare maps and conduct analysis of new acquired utility crossing and facility location data, including rural areas.

5.3.06 Biological Resources and Wetlands

- a) Continue revision of Affected Environment and Methods sections. Begin development of impacts discussion.

5.3.07 Hydrology and Water Quality

- a) No activity planned this period.

5.3.08 Geology, Soils, and Seismicity

- a) No activity planned this period.

5.3.09 Hazardous Wastes and Materials

- a) Continue to revise draft based on comments received for the Fresno to Bakersfield draft EIR/EIS section.

5.3.10 Safety and Security

- a) Submit revised section based on PMT comments.

5.3.11 Community Impact Assessment

- a) No activity planned this period.

5.3.12 Growth, Station Planning, and Land Use

- a) Coordinate with final draft of Fresno to Bakersfield Land Use section to ensure consistency.
- b) Incorporate alignment changes.

5.3.13 Agricultural Land

- a) Respond to comments from PMT.
- b) Begin drafting Appendix 3.14 on animal operations.

5.3.14 Parks, Recreation, and Open Space

- a) Review PMT comments on draft and revise as necessary.

5.3.15 Aesthetics and Visual Quality

- a) No activity planned for this period.

5.3.16 Cultural Resources

- a) No activity planned for this period.

5.3.17 Regional Impacts

- a) Continue drafting the introductory sections.

5.3.18 Cumulative Impacts

- a) Compile data from local jurisdictions and incorporate information into the cumulative project list.

5.3.19 Section 4(f) and 6(f) Evaluations

- a) Populate list of known 4(f) properties in the study area.

Task 7 Draft/Final EIR/EIS

7.1 Administrative Draft (Admin Record/Caltrans PR/ED)

- a) Continue coordination of materials for the administrative record.

7.2 Prepare Draft EIR/EIS

- a) No work planned.

7.3 Draft Final EIR/EIS/Respond to Comments

- a) No activity planned this period.

7.4 Identify Least Environmentally Damaging Practicable Alternative (LEDPA)/Checkpoint C

- a) No work planned this period.

7.5 CDFG Consistency Determination

Refer to Task 8.4.4.4.

7.6 Final EIR/EIS

- a) No activity this period.

7.99 Environmental Task Management

- a) Manage the EIR/EIS work and continue coordination with PMT.
- b) Provide oversight to revision of Administrative Draft EIR/EIS.
- c) Continue to support integration management objectives.

Task 8 Certification/ROD/Permits

8.1 Findings and Statement of Overriding Consideration

No activity this period.

8.2 Notice of Determination/Record of Decision

No activity this period.

8.3 Mitigation Monitoring and Reporting Plan

No activity this period.

8.4 Permitting

8.4.1 USACE 404 Permit

- a) No activity planned.

8.4.2 RWQCB 401 Water Certification

- a) No activity planned.

8.4.3 CDFG 1602 Agreements

- a) No activity planned.

8.4.4 Other Permits

8.4.4.1 Section 106 Consultation

- a) No activity planned.

8.4.4.2 CDFG Take Authorization

- a) No activity planned.

8.4.4.3 CVFPB Section 208 Application

- a) No activity planned.

8.4.4.4 Section 7 Consultation under Endangered Species Act

- a) No activity planned.

8.4.4.5 Williamson Act

- a) No activity planned.

8.4.4.6 Section 4(f)/6(f)

- a) No activity planned.

Task 9 Right-of-Way Preservation

9.1 Right-of-Way Preservation and Acquisition

- a) No activity planned at this time.

6) *Additional Scope to FY11/12AWP-Version 4*

On November 17, 2011, the JV was given verbal notice through the PMT that FY11/12 AWP Version 4 had been “deemed approved.” However, the JV has not received written approval. Additional work noted as out of scope was documented through the change request process.