### BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking on the Commission's Own Motion to Adopt New Safety and Reliability Regulations for Natural Gas Transmission and Distribution Pipelines and Related Ratemaking Mechanisms.

Dated: January 30, 2014

Rulemaking 11-02-019 (Filed February 24, 2011)

# PACIFIC GAS AND ELECTRIC COMPANY'S PIPELINE SAFETY ENHANCEMENT PLAN (PSEP) COMPLIANCE REPORT

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#### I. INTRODUCTION

Pursuant to Ordering Paragraph 10 of Decision 12-12-030, attached is PG&E's PSEP Quarterly Compliance Report, for the reporting period October 1, 2013 through December 31, 2013.

Respectfully Submitted,

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Dated: January 30, 2014

#### PACIFIC GAS AND ELECTRIC COMPANY

### PIPELINE SAFETY ENHANCEMENT PLAN (PSEP) COMPLIANCE REPORT

NO. 2013-04

REPORTING PERIOD OCTOBER 1, 2013 – DECEMBER 31, 2013

IN COMPLIANCE WITH CPUC DECISION 12-12-030

**SUBMITTED JANUARY 30, 2014** 



# PACIFIC GAS AND ELECTRIC COMPANY PIPELINE SAFETY ENHANCEMENT PLAN (PSEP) COMPLIANCE REPORT

#### NO. 2013-04 REPORTING PERIOD

#### OCTOBER 1, 2013 – DECEMBER 31, 2013 IN COMPLIANCE WITH CPUC DECISION 12-12-030 SUBMITTED JANUARY 30, 2014

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# PACIFIC GAS AND ELECTRIC COMPANY PIPELINE SAFETY ENHANCEMENT PLAN (PSEP) COMPLIANCE REPORT

#### NO. 2013-04 REPORTING PERIOD

#### OCTOBER 1, 2013 – DECEMBER 31, 2013 IN COMPLIANCE WITH CPUC DECISION 12-12-030 SUBMITTED JANUARY 30, 2014

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# PACIFIC GAS AND ELECTRIC COMPANY PIPELINE SAFETY ENHANCEMENT PLAN (PSEP) COMPLIANCE REPORT NO. 2013-04 IN COMPLIANCE WITH CPUC DECISION 12-12-030

#### Introduction

In response to the California Public Utilities Commission's (CPUC or Commission) order in the Gas Pipeline Safety Order Instituting Rulemaking (R.) 11-02-019, Pacific Gas and Electric (PG&E) filed its Pipeline Safety Enhancement Plan (PSEP or Implementation Plan) on August 26, 2011 with the goal of enhancing safety and improving operations. Subsequently, the Commission issued Decision (D.) 12-12-030 on December 28, 2012. Ordering Paragraph (OP) 10 of that decision directs PG&E to file and serve quarterly compliance reports to keep the CPUC and the public informed of PG&E's progress and actual cost experience related to the Implementation Plan. Per OP 10, the PSEP Compliance Reports are to be submitted in compliance with instructions set forth in Attachment D of the decision, which is separated into 29 specific requirements.

PSEP Compliance Report No. 2013-04<sup>1</sup> is submitted in compliance with the instructions set forth in Attachment D and reflects the reporting period of October 1, 2013 through December 31, 2013. It is being served on the directors of the Commission's Energy Division and the Safety and Enforcement Division, and to the service list in Rulemaking 11-02-019. It will also be posted on the PG&E website at http://apps.pge.com/regulation.<sup>2</sup>

This report is labeled "No. 2013-04," to designate that it covers the reporting period ending the fourth quarter of 2013. The first PSEP Compliance Report No. 2013-01 covered the reporting period from program inception (April 1, 2011) through the first quarter of 2013.

Click on "Search" under Public Case Documents. Select "Gas Pipeline Safety OIR" from the "Case" dropdown menu. Select filing date of January 30, 2014 to narrow the search criteria. Then click "Search."

#### **Summary**

PSEP is an essential part of PG&E's commitment to rigorous safety standards, improved operations and better service for its customers and the public. As a result of the commitment and investment through December 31, 2013, PG&E's accomplishments through PSEP include:

- Completing 538 miles of strength testing.<sup>3</sup>
- Validating records for 119 miles of prior strength tests as meeting the "traceable, verifiable and complete" standard.<sup>4</sup>
- Replacing 104 miles of pipeline.5
- Upgrading 194 miles of pipeline to accept In-Line Inspection (ILI) technology, of which 78 miles have already been in-line inspected.
- Automating 134 valves.
- Completing the records collection and Maximum Allowable Operating Pressure (MAOP) validation of PG&E's entire transmission pipeline system.
- Making material improvements in PG&E's records processes and tools.
- Completed all planned ILI upgrades for Phase 1 as of January 2014.

The following table highlights the progress of PG&E's construction activities during the fourth quarter of 2013 and on a year-to-date basis.

Includes 51.1 miles proposed in PG&E's PSEP Update Application to be funded outside of PSEP.

PG&E completed MAOP validation of all gas transmission pipeline in July 2013. Through that process, PG&E verified records for 162 miles for which PSEP work is no longer required in 2013 and 2014. Of that, 119 miles of records found related to work that would have otherwise been completed in 2013 and 43 miles of records found related to work that would have otherwise been completed in 2014. Although PG&E has already validated MAOP for these 162 miles of pipeline, PG&E engineering performs an additional validation of records of prior strength tests as meeting the "traceable, verifiable and complete" standard upon planning for the execution of 2013-2014 work.

Miles of pipeline replaced is based on pipe installed and backfilled, retired, and downrated; may not be operative.

# TABLE 1 PACIFIC GAS AND ELECTRIC COMPANY SUMMARY OF PSEP CONSTRUCTION ACTIVITY QUARTER ENDING DECEMBER 31 AND YEAR-TO-DATE

	Q4 2013	YTD 2013
Pipeline Replacement (miles)	27.0(a)	64.0(b)
Strength Testing (miles)	78.1	198.8(c)
In-Line Inspection (ILI) (miles)	_	78.0
Pipeline Upgrades to Allow ILI (miles)	61.3	116.3
Valve Automation (valves)	36.0	75.0

<sup>(</sup>a) PSEP-funded Pipeline Replacement for Q4 accounted for 20.0 miles. In addition, PG&E replaced 7.0 miles of non-PSEP funded Pipeline Replacement miles in Q4.

- (b) PSEP-funded Pipeline Replacement for year-to-date (YTD) accounted for 57.0 miles. In addition, PG&E replaced 7.0 miles of non-PSEP funded Pipeline Replacement miles YTD.
- (c) PSEP-funded Strength Testing for YTD accounted for 186.6 miles. In addition, PG&E strength tested 12.2 miles of non-PSEP funded Strength Testing miles YTD.

In addition to the units completed as shown in the table above, in the current reporting period, PG&E has delivered tangible improvements to the safety of the gas transmission system, met key program milestones, and demonstrated material improvements in project success criteria, including:

- Delivered significantly improved annual safety performance in 2013, in comparison with 2012, with an increased annual construction volume.
- As a part of ongoing construction contractor alliance (Alliance), executive leadership from both PG&E and the Alliance contractors assessed performance and participated in key planning activities. The team reviewed topics including: analysis of benefits realized from 2013-completed Alliance projects as compared to 2012-completed competitively bid projects; plans to complete the closeout of the remaining 2013 construction projects; and a preliminary review of Gas Transmission's 2014 construction portfolio. The team also discussed the successes and opportunities for improvement within the Alliance, including areas to realize additional efficiencies. Additionally, the team completed initial allocation of all currently planned 2014 construction projects to Alliance construction contractors and PG&E's Gas Transmission General Construction.
- Completed earlier design of the next year's project portfolio in 2013. At year end, out of 200 projects planned for 2014, approximately 12 percent of projects have

- reached 30 percent engineering completion, 29 percent of projects have reached 60 percent engineering completion, and 14 percent of projects have reached 90 percent engineering completion.<sup>6</sup>
- Successfully moved the last month of the peak PSEP construction period in 2013 (based upon construction hours worked) from November to October. At the same time, the construction hours worked increased by 23.9 percent in 2013, as compared to 2012.
- Successfully identified and remediated two pipeline leaks/failures for the reporting period (11 year-to-date)—which resulted in approximately 75 feet of pipeline replacement for the reporting period (approximately 455 feet year-to-date) to replace sections of pipeline that failed or leaked during strength tests.
- Successfully identified and addressed pipeline anomalies prior to conducting a Strength Test (T-303) on a six-mile section of Line 186 near Dos Palos, as part of PG&E's piloting of an-ultrasonic ILI tool on November 9, 2013.
- Successfully completed weld re-inspection activities on the Line 114 pipeline replacement project, which included facilitating the onsite review by the Pipeline and Hazardous Materials Safety Administration and CPUC field representatives. The new pipeline was placed into service on October 19, 2013.
- Continued improvement in environmental compliance performance and cost efficiencies associated with implementing storm water and best management practices.
- Filed the PSEP Update Application (A.) 13-10-017 on October 29, 2013, to present the results of the MAOP Validation Project, and to update the revenue requirements and budgets related to the Pipeline Modernization Program (pipeline replacement and strength testing), consistent with D.12-12-030.

Table 2 provides a summary of the PSEP activities and actual costs from program inception in April 1, 2011 to December 31, 2013. (See the response to Question 20 for further detail.)

<sup>6</sup> The percentages presented are based upon the highest stage of engineering completion.

# TABLE 2 PACIFIC GAS AND ELECTRIC COMPANY SUMMARY OF PSEP FILED VS. ACTUAL COSTS BY WORKSTREAM REPORTING PERIOD OCTOBER 1, 2013 – DECEMBER 31, 2013 (IN MILLIONS OF DOLLARS)

	PG&E Filing Estimate	Authorized Program Costs(a)	Actual Costs Program Inception-to-Date (2011 – 12/31/13)(b)(d)	Actual Costs Reporting Period (10/1/13 – 12/31/13)(b)
Pipeline Modernization				
Pipeline Replacement	\$839.1		\$552.6	\$82.4
Strength Testing	456.8		564.8	56.9
In-Line Inspections/Upgrades	39.9		55.8	10.4
Subtotal	\$1,335.8	\$1,002.0	\$1,173.6	\$149.8
Valve Automation	143.6	135.7	96.7	6.7
Pipeline Records Integration	286.0	0.0	319.6	8.4
Interim Safety Enhancement Measures	3.2	2.1	4.7	0.7
Program Management Office (PMO) and Other(c)	34.8	28.9	49.5	3.0
Risk-Based Contingency	380.5	0.0	0.0	0.0
Total	\$2,183.9	\$1,168.8	\$1,644.1	\$168.6

(a) Authorized amounts as provided in Attachment E, Table E-4, of D.12-12-030. The authorized amounts for pipeline replacement and strength testing may change in the future pending the outcome of PG&E's PSEP Update Application filed on October 29, 2013.

<sup>(</sup>b) Includes Stanpac costs incurred of approximately \$10.29 million and \$0.26 million on a program inception-to-date basis and for the reporting period, respectively. Amounts include reallocation of prior period amounts consistent with PSEP scope decisions and cost allocation.

<sup>(</sup>c) "Other" includes costs of activities pending assignment to an individual workstream or determined as not directly associated with an individual workstream.

<sup>(</sup>d) Inception-to-Date amounts include reallocation of prior period amounts consistent with PSEP scope decisions and cost allocation.

#### **Decision-Making Process**

#### 1. Project Planning and Prioritization of Work

Describe PG&E's project planning process including how the projects were and are being scheduled and sequenced and what measures were and are being taken to conduct the work in a cost effective manner.

#### Response

PSEP's prioritization and scheduling processes remain consistent with the descriptions previously provided in PSEP Compliance Report No. 2013-01 and testimony supporting PG&E's August 26, 2011 Implementation Plan.<sup>7</sup>

During the fourth quarter of 2013, work prioritization for pipeline replacement and strength testing projects has been driven from the results of applying PSEP Decision Trees to validated pipeline segment attribute data as presented in PG&E's PSEP Update Application (A.13-10-017). Work prioritization for valve automation and ILI projects continues to be driven from the results of applying PSEP Decision Trees to pipeline segment attribute data as detailed in PG&E's August 2011 Implementation Plan. In addition, project scheduling in the current reporting period has incorporated ongoing assessments of pipeline system operational safety, customer service requirements, permitting restrictions, and cost effectiveness. Material project-level changes to scope and schedule, during the reporting period, as a result of these processes are also provided within the "comments" column of the table responses to Questions 11 through 13.

Of the 12 projects identified in PSEP Compliance Report No. 2013-03 as scheduled to commence construction in the fourth quarter of 2013, nine projects commenced construction as planned, and three projects have been rescheduled to commence construction in 2014. Of the nine projects that commenced as planned within the reporting period, five projects were completed.

PG&E's PSEP Update Application, filed on October 29, 2013, provides an updated list of 2011-2014 pipe replacement and strength testing projects.

PG&E PSEP Implementation Plan (R.11-02-019) Prepared Testimony, Chapter 3 – Gas Transmission Pipeline Modernization Program, Section A.5, and Chapter 4 – Gas Transmission Valve Automation Program, Section K.1.

#### **Resource Procurement and Oversight**

#### 2. Resource Planning

Explain how PG&E decided whether to do the work in-house (e.g., use own employees and equipment) or contract the work out to other parties.

#### Response

PSEP's resource planning process remains consistent with the description previously provided in PSEP Quarterly Compliance Report 2013-01. To ensure that Implementation Plan work is completed on a timely basis, PG&E has implemented a resource management model whereby the skills and experience of PG&E employees are augmented by contractor resources. PG&E also uses contractor resources where it has identified the need to efficiently leverage new skills or equipment within an accelerated timeframe, or where the use of a contractor provides additional expertise.

During the current reporting period, program activities related to the selection of contractors have included, but are not limited to:

- Ongoing review of results of safety, environmental and quality assurance inspection activities at construction contractor project sites.
- Quality Assurance review of the update of pipeline segment data, the associated PSEP Decision Tree outputs, and their incorporation into construction projects (see PG&E's Update Application filed October 29, 2013, Chapter 3, "Quality Assurance").
- Alliance construction contractor regional work allocation meetings to monitor and coordinate on outcomes of work allocation process (in partnership with PG&E Gas Transmission General Construction) and Alliance contractor executive leadership meetings.
- Completion of the year-end annual contractor performance scorecard review for each of the Alliance construction contractors.

#### 3. Contractor Selection Process

For work contracted out to other parties, what criteria did PG&E use to select the contractors and did PG&E use a competitive bidding process to select the contractor(s)? If not, explain why.

#### Response

No material changes in PG&E's contractor selection and competitive bidding processes, as previously outlined in the PSEP Compliance Report No. 2013-01, have been made during the current reporting period. PSEP has continued the implementation of an Alliance construction contractor delivery model through the 2013 PSEP construction projects with PG&E Gas Transmission General Construction and Alliance construction contractors. A majority of these projects have already completed construction and are entering the validation process whereby initial target prices are subject to a final update based upon approved change orders and final costs verification. The primary objectives of the alliance strategy remain the establishment of best-in-class safety performance, a robust construction delivery model, and the maintenance of a qualified/skilled workforce to perform work planned in 2013 and the future. The alliance model includes the following key components:

#### Resources and Planning

- Consistent "A" team availability and scalable crew composition.
- Commitment to provide early constructability feedback via joint planning and co-location.
- Bundling of work across PSEP workstreams and within four regional areas that span PG&E's entire service area to reduce "peaks and valleys" in resource requirements.
- Collaboration on industry best practices and lessons learned.

#### Performance Measurement

 Increased transparency and alignment across construction cost estimation models using negotiated standardized "open book" labor and equipment rates and consistent overhead (general and administrative) expenses.

PSEP construction contracts are competitively bid when PG&E and Alliance contractors are unable to negotiate a target price. As reported in PSEP Compliance Report No. 2013-03, one such instance has occurred in 2013.

- Shared project risk/incentive model using negotiated "target pricing" model, which shares under and over runs on a 50:50 basis.
- Project completion cost true-up and lessons learned—costs being fully auditable where appropriate.
- Five-year agreement with cancellation off ramps, including option to bid any portion of work to maintain pricing/cost discipline.
- Monthly program score carding and quality leadership reviews.

Construction-related project activities performed outside of either the Alliance contracting process or PG&E's Gas Transmission General Construction are assigned to existing suppliers using existing Master Service Agreements (MSA) that were previously subject to competitive bidding, or assigned on a Direct Award basis, based on the nature of the specific services required by the project.<sup>9</sup>

<sup>9</sup> Please refer to PSEP Compliance Report No. 2013-01, Question 3, p. 11, for a description of Direct Award.

#### 4. Quality Assurance – Outside Contractors

How does PG&E monitor the quality of work performed by outside contractors? Has PG&E found any instances where a contractor failed to do the work properly? If so, what actions did PG&E take in response?

#### Response

No material changes in PG&E's procedures that monitor the quality of work performed by outside contractors, and as previously outlined in prior PSEP Compliance Reports occurred in the current reporting period.

PG&E has found instances where the contractor did not perform quality work according to PG&E's internal standards. In such situations, and as appropriate, PG&E takes specific actions to maintain the integrity of its gas transmission system and ensure such instances do not reoccur. Examples<sup>10</sup> of such quality monitoring activities and related issues identified during the reporting period include:

- PG&E's Quality Assurance/Quality Control (QA/QC) department performed 235 field assessments in Q4 (686 year-to-date) of gas transmission contractor construction work. These field assessments were conducted on 38 individual projects in Q4 (154 year-to-date). These assessments resulted in 83 "Corrective Action Notices" in Q4 issued by PG&E (263 year-to-date) and were primarily related to errors in documentation of the work performed. The majority of the "Corrective Action Notices" have already been resolved or are still being tracked to resolution with PG&E's QA/QC department.
- Completion of 372 job-site safety observations in Q4 (2,032 year-to-date).
   Through these observations, 163 observable items were identified in Q4 (689 year-to-date). All of the observable items were mitigated to align with the on-site contractor site-specific safety plan. As a result, 57 "good catches" were identified and addressed in Q4 (250 year-to-date) to raise the worksite safety awareness of every contractor or employee working on a PG&E project.

<sup>10</sup> The information provided includes contractors and employees.

<sup>11</sup> Quality performance metrics derived from the aforementioned field assessments for Q4, remained within PG&E's quality thresholds.

<sup>12</sup> Good catches are potentially unsafe situations that were brought to site personnel's attention and rectified.

- PSEP Leadership Observation Teams<sup>13</sup> visited 80 construction sites during Q4 (350 year-to-date) to engage work crews and promote best practices.
- As part of PG&E's internal standards, PG&E completed 2,534 environmental inspections in Q4 to comply with PG&E standards (7,747 year-to-date). The environmental inspections identified 133 compliance deficiencies<sup>14</sup> in Q4 (592 year-to-date), 4 compliance issues<sup>15</sup> in Q4 (31 year-to-date) and 2 non-compliance issues<sup>16</sup> in Q4 (5 year-to-date). The non-compliance issues in Q4 and year-to-date are typically related to not meeting PG&E standards and lack of communication on change of scope of work. The issues were addressed through a correction action plan investigation and lessons learned were implemented.

<sup>13</sup> PSEP Leadership Observation Team visits at construction project sites to ensure safety compliance and to promote best practices.

<sup>14</sup> Compliance deficiencies are correctable items that do not have significant impact on resources or environmental resources.

A compliance issue is a situation or minor problem that needs to be addressed immediately to prevent resource damage or environmental noncompliance.

A non-compliance issue does not fulfill PG&E's internal environmental requirements and results in an impact on resources or places environmental resources at risk.

#### 5. Quality Assurance – Internal Resources

What quality assurance procedures does PG&E have in place to determine whether the project work is being done correctly by its own employees? Has PG&E found any instances where the work was not done properly? If so, what actions did PG&E take in response?

#### Response

No material changes in PG&E's procedures that monitor the quality of work performed by internal resources, as previously outlined in prior PSEP Compliance Reports, occurred in the current reporting period.

PG&E has found instances where employees did not perform quality work. In such situations, and as appropriate, PG&E takes specific actions to maintain the integrity of its gas transmission system and ensure such instances do not reoccur. Please refer to the response to Question 4 for examples of such quality issues identified during the reporting period.

#### 6. Project Management Office Overview

Describe the role of the Program Management Office (PMO) (see p. 7-10 of Prepared Testimony) in containing project costs. Provide specific examples where the PMO's recommendations led to cost savings.

#### Response

The role of the PMO, as described in the prepared testimony referenced in the question above, remains unchanged and its objectives can be summarized as follows:

- To help manage the overall Program execution and to coordinate the activities of inter-related projects or workstreams.
- To provide oversight and provide observations and recommendations for process improvements and enhanced performance.
- To provide assurance that Program control tools and procedures are operating in the way they are intended to achieve Program objectives.

The operation of each of the groups within the PMO support these objectives, and in doing so, contribute to the cost-effective execution of the Implementation Plan. While it is not possible to accurately segregate and quantify individual cost savings impacts, during the current reporting period the PMO has continued to work with each workstream on a series of improvement initiatives that are designed to lead to cost savings. These initiatives include, but are not limited to:

- Construction Contractor Alliance
  - Project Performance Measurement and Target Pricing: As part of the continued implementation of an Alliance construction contractor delivery model, the PSEP PMO has developed and continues the implementation of a performance measurement process. This process finalizes approved change orders and incorporates cost validation activities with construction contractors that ultimately result in "true-up" payments to or from the construction contractor based upon a 50:50 sharing of validated costs in excess of, or below, the final target price. Within the current reporting period, PG&E had completed four project true-ups with a realized increase in cost to PG&E against the target price of approximately \$136,814 or 3 percent of the final target price. Extended change order negotiations and processing as well as gathering and receipt of actual costs from Alliance Partners have increased the time required to true-up

- and close out projects. It is anticipated that the completion of construction activities and invoicing documentation will extend these activities on the majority of 2013 portfolio projects into the first quarter of 2014.
- Construction Resource Availability and Efficiency: Weekly reviews of
  Alliance construction contractor commitments to provide consistent and
  sustained access to "A-team" resources across a bundle of PSEP work in
  an assigned geographical region (e.g., mitigating individual project delays
  by bringing forward work on future projects).
- Continuous Improvement and Lessons Learned: In partnership with the PMO, Shared Services has worked to collect Alliance-contractor-identified potential improvements and is in the process of reviewing and assessing these for potential incorporation into 2014 activities.
- Increasing the consistency of delivery on best practices and efficiency across the PSEP program, including continued support of environmental management best practices and site restoration activities which resulted in the beneficial reuse of 2,282,425 gallons of water in Q4 (4,033,915 gallons year-to-date) and the reuse between strength-testing segments of 243,000 gallons of water in Q4 (1,443,200 gallons year-to-date). The application of these best practices resulted in an annual reduction of 74 percent in the generation of hazardous waste from 796,450 gallons in 2012 to 205,900 gallons in 2013.
- A broader list of lessons learned is being implemented and tracked within each workstream and is provided in response to Question 17.

#### 7. Project Management Office Costs and Benefits

Provide the costs incurred by the PMO year-to-date and describe the specific work they did for the benefit of PG&E customers.

#### Response

The PSEP PMO incurred approximately \$12.3 million during the period January 1, 2013 through December 31, 2013. Consistent with PG&E's commitment to customers to provide safe, reliable, and affordable gas service, the PSEP PMO is responsible for the successful delivery of all projects within PG&E's Implementation Plan.

Throughout 2013 and during the current reporting period, the PMO, in partnership with project teams and cross-functional leads including PG&E's Customer Care and Corporate Communications organizations, has focused on many areas that directly benefit PG&E customers including:

- Improving Construction Site Safety: Implemented a series of safety-focused activities designed to improve construction site safety for employees, customers, and local communities, including leadership site visits, "good catch" or "near hit" reporting, after-hours site security audits and job hazard mitigation analyses. In addition, the program maintains metrics that track a targeted 10 percent performance improvement in 2013 (compared to 2012) for the incidence of construction-related public safety incidents and at-fault "dig-ins." These metrics improved by 86 percent and 63 percent, respectively, and remain on track to meet or exceed 2013 targets. PSEP's year-to-date 2013 recordable incident rate was 0.9617 as of December 31, 2013.
- Improving Environmental Compliance: Inspection findings and feedback to PG&E and contractor construction resources have focused on addressing compliance performance related to approved soil off-haul procedures, storm water management plans, dust control readiness and implementation, and fire prevention and response readiness. Through December 31, 2013, PSEP remained significantly ahead of plan to meet or exceed a 10 percent reduction

<sup>17</sup> Includes hours worked by Alliance contractors, Construction Management inspectors, and PG&E General Construction resources on PSEP construction projects.

- in inspection findings compared to its 2012 environmental compliance incidence rate.
- Maintaining Consistency of Pre-Construction Customer Communications:
   During the current reporting period, PG&E has consistently communicated with customers on PSEP-related activities through distributing pre-venting notifications, hosting open houses, and providing customer communication materials.
- Improving Construction Project Planning and Bundling: During the current reporting period, PG&E has continued to better align PSEP construction schedules and regionally bundle work across workstreams, including non-PSEP projects. Bundling enables potential reductions in the required system clearances, clearance resources, and the duration and impact of construction-related service and traffic disruptions. During the current reporting period, this increased alignment enabled PG&E to meet the majority of its targeted project tie-ins in spite of a prolonged cold spell during December 2013 that severely restricted the availability of system clearances.
- Improving Customer Outage Management: PG&E continued to leverage its increased Compressed Natural Gas/Liquefied Natural Gas (CNG/LNG) fleet. Project planning improvements implemented during 2013 increasingly deliver earlier and better visibility into customer demand requirements and enable better planning of CNG/LNG resources and flexibility with customer schedules. This improvement has helped minimize planned customer outages and reduce the risk of unplanned customer outages.

Finally, the PMO's role continued during the current reporting period to include many activities that also indirectly support customer services including the implementation and management of consistent program controls and governance, quality control, reporting and initiatives designed to improve project success and increase cost efficiencies.

#### **Budgeting and Spending**

#### 8. Factors Impacting Cost Effectiveness

Describe any factors, either internal or external, that may have prevented or affected PG&E from conducting the work in a more cost effective manner.

Quantify the cost impact of such factors.

#### Response

PG&E's PSEP has consistently identified project uncertainties, and implemented risk mitigation activities and remediation measures. Despite best efforts, PG&E has not been able to fully mitigate the potential impact of cost uncertainties. Factors that have driven these cost impacts in projects completed in the current reporting period include:

- <u>Project Definition</u>: Changes in project scope upon completion of data validation and prioritization of individual pipeline segments to maintain system integrity and public safety (i.e., shortened project lengths, increased project counts and reduced development schedules).
- <u>Pipeline Routing Restrictions</u>: Increased complexity and cost of pipeline routing due to the limitations on the use of urban franchise areas, existing utilities and infrastructure (i.e., increased construction costs and duration).
- Geographical Conditions: High water table, trench dewatering costs, poor or weak soil, excessive permitting conditions, site specific contamination, and excessive waste disposal fees (i.e., increased construction costs and duration).
- Permitting and Land Rights: Delays and uncertainty in receiving permits from state and local authorities while acquiring additional land rights from customers (i.e., project being forced to adopt costly "in-road" construction within franchise rather than being able to pursue more cost-effective verge construction that is subject to extended permitting timelines.) Increased permitting conditions, restricted work hours to avoid road/lane closures during heavy commute hours (i.e., compacted construction schedules).
- Unidentified Pipeline Field Conditions: Additional construction activities, including pipeline cleaning (to meet unique wastewater disposal requirements), the removal of pipeline anomalies, the repair and replacement of pipe, valves and fittings due to condition, and construction obstructions and

- re-engineering due to previously unidentified non-PG&E structures or other utilities (i.e., increased construction duration and costs).
- Gas System and Customer Service Constraints: Limited availability of gas system clearances due to seasonal customer demand and system operations, safety-related pressure reductions, CNG/LNG resource requirements, and the availability of PG&E and contract construction crews to complete tie-ins, particularly during peak summer construction periods and towards the end of the calendar year (i.e., increased construction durations and costs).

Our response to Question 19 provides PG&E's most recent risk management assessment with a project-by-project analysis of unexpected or unforeseen items that have affected 2013 completed projects and the resulting cost and schedule impacts.

#### 9. Procurement Policy and Practices

Describe PG&E's procurement policy and practices for pipe and other materials used for projects. Was a competitive bidding process used? If not, explain why. Describe what factors PG&E considers in procuring material ranked by importance. Identify the manufacturer(s) or suppliers of the pipe used for the replacement projects and for any material that cost more than \$100,000 per item.

#### Response

The majority of material is purchased from existing suppliers through MSAs, the terms and conditions of which (including unit pricing) are the result of a competitive bidding process.

Material supplier selection, the competitive bidding processes, and factors previously described in PSEP Compliance Report No. 2013-01 were unchanged during the current reporting period.

Manufacturers or suppliers of the pipe used for PSEP replacement projects are:

- Berg Pipe
- Durabond Industries
- California Steel Industries
- U.S. Pipe
- Tenaris
- Voestalpine
- PTC Alliance
- Wheatland Tube

No materials procured during the current reporting period cost more than \$100,000 per item.

#### 10. Pipeline Disposition Procedures and Costs

What was the disposition (e.g., sold) of replaced pipe and other material? Identify all the amounts earned for the disposition of the material, costs incurred to transport or dispose of the material and regulatory treatment of the incurred costs and revenues.

#### Response

The disposition of transmission pipeline and other material replaced as part of the PSEP program—stored, hazardous waste, retired-in place or salvage—and related cost allocations as described in PSEP Compliance Report No. 2013-01 remain unchanged during the reporting period. PG&E has recovered approximately \$93,296 in Q4 (\$221,632 year-to-date) as a result of salvage activities.

#### **Project Status Summaries**

#### 11. Projects Completed Year-to-Date

Provide a complete description or a specific reference to proceeding workpapers, of projects completed during this reporting period and those completed Year-to-Date, include the start and finish dates. On a project-by-project basis, provide the amount budgeted for the project and an itemized list of the costs, including labor and material, incurred completing of the project. Identify the amount that a project was over or under-budget. Indicate whether the work was done in-house or by outside contractor(s). Identify the outside contractor(s). Explain how the work was done in compliance with D.11-06-017 and PG&E's Decision Tree and, if so, provide the Decision Tree outcome identifier associated with each project. Identify costs that shareholders will absorb.

#### Response

Table 11-1 of the appendix provides details on 142 individual projects across five PSEP construction workstreams<sup>18</sup> that were completed by PG&E during the current reporting period and year-to-date.<sup>19</sup> With respect to these projects, Table 11-1 includes specific reference to proceeding workpapers, including the construction start and finish dates.<sup>20</sup> In addition, it provides, on a project-by-project basis, the amount budgeted for the project and an itemized list of the costs (e.g., including labor and materials incurred in completing the project); the amount that a project was over or under budget; and whether the work was completed in-house or by outside contractor(s), including the identification of the outside contractor(s).

All work detailed in Table 11-1 was undertaken in compliance with D.11-06-017; each project includes pipeline segments for which a prior strength test has previously not been performed and/or for which traceable, verifiable and

<sup>18</sup> Includes: pipeline replacement, strength testing, ILI, pipeline ILI upgrades, and valve automation.

For the purposes of this report, the completion of a project is the date the pipeline segments and valves are returned to operations.

For projects completed during the reporting period, construction finish dates may reflect the forecast completion date of construction activities.

complete records of such a test do not exist.<sup>21</sup> PG&E's Workpapers Supporting Chapter 2, Gas Transmission Pipeline Modernization Program Update, of the PSEP Update Application provides descriptions of how each of the pipeline replacement and strength testing projects listed in Table 11-1 was performed in compliance with D.11-06-017, including the associated segment-level Decision Tree outcome identifier. PG&E's Workpapers Supporting Chapter 3, Gas Transmission Pipeline Modernization Update, and Chapter 4, Valve Automation Program, of the August 26, 2011 PSEP filing provides descriptions of all planned PSEP ILI and valve projects that have been or will be performed in compliance with D.11-06-017.

As PG&E progressed from the preliminary work scope and associated estimates and work plans included in its August 2011 Implementation Plan filing, it developed more specific work plans and estimates. These refined estimates, or "Job Estimates," are used in this report for Questions 11 through 13 and 15, to represent the budgeted amount by project for a more meaningful comparison to total costs. Upon completion of the Phase 1 work scope, PG&E will have to reconcile its total incurred costs for the work scope to the amounts adopted by the Commission in order to determine the final disposition of shareholder costs. See Table 20-1 in this report for the total amount of costs that shareholders have absorbed year-to-date based upon amounts previously authorized by the CPUC, shown by month and broken down by activity.

Table 11-2 provides a reference for the specific data points requested in Question 11 to their corresponding columns in Table 11-1 of the appendix. Additional data points are included for context in navigating the tables.

Table 11-1 also includes strength testing of pipeline segments for which a specification changed (e.g., class location or load requirements) that necessitated a new test to comply with applicable code. The costs associated with such testing are not included in PSEP costs.

### TABLE 11-2 PACIFIC GAS AND ELECTRIC COMPANY DATA POINT/TABLE 11-1 COLUMN REFERENCE

Column Name	Description		
Line #	Reference number for this report.		
PSEP Filing PSRS	PSRS number provided in workpapers supporting PG&E's August 26, 2011 filing.		
New PSRS	PSRS number provided in workpapers supporting PG&E Update Application for pipeline replacement or strength test projects commonly resulting from project split or addition.		
Order Number	Financial system of record reference number to track specific costs, e.g. on individual projects.		
Project Description	Order Description provided in workpapers supporting PG&E's August 26, 2011 filing for valve automation, ILI, and upgrades for ILI. Order Description provided in workpapers supporting PG&E's October 29, 2013 Update Application for pipeline replacement and strength testing. Includes project reference IDs that start with a letter that reflects the construction activity or workstream (i.e., R – pipe replacement, T - strength testing, V – valve automation, and I – in-line inspection).		
City	Location of project.		
Construction Contractor	Contractor who performed the work ("GC" refers to PG&E in-house).		
Mobilization Date	Project start date.		
Tie-In Date	Project finish date.		
Job Estimate Amount	Amount budgeted for project after completing project engineering, routing, permitting and construction bids.		
Total Cost	Itemized costs per project completed.		
Labor Cost			
Materials Cost			
Contracts Cost			
Other Cost(a)			
Variance to Budget	Variance between Total Cost and Job Estimate (see Question 19).		
PSEP Disallowed Cost	Project costs disallowed per CPUC Decision 12-12-030, i.e., post-1955 pipe work (does not include any estimation of amounts in excess of individual workstream authorized expenses and capital expenditures).		
Non-PSEP Costs	Project costs not recoverable within PSEP.		
>10% Over Budget	Projects greater than 10 percent over Job Estimate.		
Comments	Descriptions of changes to the project, including project additions, accelerations, delays, and cancellations.		

<sup>(</sup>a) Other costs include costs not included in Labor, Materials, or Contracts such as overhead.

#### 12. Projects Started, Pending Completion

Provide a complete description, or a specific reference to proceeding workpapers, of projects that have begun but are currently unfinished, include the start and anticipated completion dates. On a project-by-project basis, provide the amount budgeted for each project. Explain how the work is being done in compliance with D.11-06-017 and PG&E's Decision Tree and, if so, provide the Decision Tree outcome identifier associated with each project.

#### Response

Table 12-1 of the appendix provides details on 13 individual projects across five construction workstreams where construction has commenced but the project has not yet been returned to operations (tied-in) as of December 31, 2013. Table 12-1 includes specific reference to workpapers of projects that have started construction but are not yet completed<sup>22</sup> as of the end of the reporting period. Table 12-1 includes the construction start and anticipated finish dates. In addition, it provides, on a project-by-project basis, the amount budgeted for the project.

All work detailed in the table was undertaken in compliance with D.11-06-017; each project includes pipeline segments for which a prior strength test has previously not been performed and/or for which traceable, verifiable and complete records of such a test do not exist. PG&E's PSEP Update Application Workpapers Supporting Chapter 2, Gas Transmission Pipeline Modernization Program Update provides descriptions of how each of the pipeline replacement and strength test projects listed in Table 12-1 is being performed in compliance with D.11-06-017, including the associated segment-level Decision Tree outcome identifier. PG&E's August 26, 2011 PSEP filing, Workpapers Supporting Chapter 3, Gas Transmission Pipeline Modernization Update, and Chapter 4, Valve Automation Program, provides descriptions of all planned PSEP ILI and valve projects that have been and will be performed in compliance with D.11-06-017.

For the purposes of this report, the completion of a project is considered the date the pipeline segments are returned to operations.

Table 12-2 provides a reference for the specific data points requested in Question 12 to their corresponding column in Table 12-1 of the appendix. Additional data points are included for context in navigating the tables.

# TABLE 12-2 PACIFIC GAS AND ELECTRIC COMPANY DATA POINT/TABLE 12-1 COLUMN REFERENCE

Column Name	Description		
Line #	Reference number for this report.		
PSEP Filing PSRS	PSRS number provided in workpapers supporting PG&E's August 26, 2011 filing.		
New PSRS	PSRS number provided in workpapers supporting PG&E Update Application for pipeline replacement or strength test projects commonly resulting from project split or addition.		
Project Description	Order Description provided in workpapers supporting PG&E's August 26, 2011 filing for valve automation, ILI, and upgrades for ILI. Order Description provided in workpapers supporting PG&E's October 29, 2013 Update Application for pipeline replacement and strength testing.		
Mobilization Date	Project start date.		
Tie-In Date	Anticipated project finish date.		
Job Estimate Amount	Amount budgeted for project after completing project engineering, routing permitting and construction bids.		
Comments	Descriptions of changes to the project, including project additions, accelerations, delays, and cancellations.		

#### 13. Projects Planned, But Yet to Start

Provide a complete description, or a specific reference to proceeding workpapers, of projects that were forecasted for Phase 1 that have yet to start, include the anticipated start and anticipated completion dates. Rank the priority of these projects and explain the ranking. On a project-by-project basis, provide the amount budgeted for the project. Explain how the work was done in compliance with D.11-06-017 and PG&E's Decision Tree and, if so, identify the Decision Tree outcome identifier associated with each project.

#### Response

Table 13-1 of the appendix provides detail on 194 individual projects across five construction workstreams where pre-construction activities have commenced but construction resources have not yet mobilized as of December 31, 2013.

Table 13-1 provides specific reference to proceeding workpapers, of projects that have yet to commence construction as of the end of the reporting period.<sup>23</sup> For each project, PG&E has supplied the current anticipated construction start and finish dates which reflect the updated output of the prioritization and schedule procedures or ranking noted in response to Question 1. In addition, the table provides, on a project-by-project basis, the amount budgeted for the project.

All work detailed in the table was undertaken in compliance with D.11-06-017. PG&E's PSEP Update Application, Workpapers Supporting Chapter 2, Gas Transmission Pipeline Modernization Program Update, and provides descriptions of how each of the pipeline replacement and strength testing projects listed in Table 13-1 will be performed in compliance with D.11-06-017, including the associated segment-level Decision Tree outcome identifier. PG&E's August 26, 2011 PSEP filing, Workpapers Supporting Chapter 3, Gas Transmission Pipeline Modernization Update, and Chapter 4, Valve Automation Program, provides descriptions of all planned PSEP ILI and valve projects that have been and will be performed in compliance with D.11-06-017.

Table 13-2 provides a reference for the specific data points requested in Question 13 to their corresponding column in Table 13-1 of the appendix. Additional data points are included for context in navigating the tables.

Table 13-1 includes projects that have commenced pre-construction activities, but not yet mobilized.

## TABLE 13-2 PACIFIC GAS AND ELECTRIC COMPANY DATA POINT/TABLE 13-1 COLUMN REFERENCE

Column Name	Description		
Line #	Reference number for this report.		
PSEP Filing PSRS	PSRS number provided in workpapers supporting PG&E's August 26, 2011 filing.		
New PSRS	PSRS number provided in workpapers supporting PG&E Update Application for pipeline replacement or strength test projects commonly resulting from project split or addition.		
Project Description	Order Description provided in workpapers supporting PG&E's August 26, 2011 filing for valve automation, ILI, and upgrades for ILI. Order Description provided in workpapers supporting PG&E's October 29, 2013 Update Application for pipeline replacement and strength testing.		
Mobilization Date	Anticipated project start date.		
Tie-In Date	Anticipated project finish date.		
Job Estimate Amount	Amount budgeted for project after completing project engineering, routing, permitting and construction bids.		
Comments	Descriptions of changes to the project, including project additions, accelerations, delays, and cancellations.		

#### 14. Additional Projects Not in Original Workpapers

Describe, in detail, projects that PG&E has completed, are work-in-progress, or have yet to start that were not included in the workpapers submitted in R.11-02-019. Explain why these projects have been included in Phase 1 and whether these projects have lowered the priority of other projects identified in proceeding workpapers and, if so, why. Explain how this work complies with D.11-06-017 and PG&E's Decision Tree and provide the Decision Tree outcome identifier associated with each project.

#### Response

In the tables referenced in PG&E's prior responses to Questions 11-13, PG&E has identified 12 projects that were not included in the workpapers submitted in the August 2011 PSEP filing. In each case, an explanation of why these projects have been included in Phase 1 is provided in the column titled, "Comments."

PG&E's PSEP Update Application, Workpapers Supporting Chapter 2, Gas Transmission Pipeline Modernization Program Update provides descriptions of how each of the pipeline replacement and strength testing projects listed in Tables 11-1, 12-1, and 13-1 will be performed in compliance with D.11-06-017, including the associated segment-level PSEP Decision Tree outcome identifier.

#### 15. Project Costs > 10% Above Estimate

For completed projects that are 10% or more over estimated costs, provide a detailed explanation why the overrun occurred.

#### Response

As PG&E progressed from the preliminary work scope and associated estimates and work plans included in its Implementation Plan, it developed more specific work plans and estimates. These refined estimates, or "Job Estimates," are used in this report to represent the budgeted amount by project for a more meaningful comparison to total costs. Table 11-1 of the appendix referenced in the response to Question 11 includes 31 projects that have cost variances equal to or greater than 10 percent of this budgeted amount, on a project-by-project basis. Identification of the cost and schedule impacts that have driven these cost variances are included within the project-by-project risk analysis on Table 19-1 provided in response to Question 19.

In addition, in the response to Question 19, PG&E has summarized the primary cost drivers that have in many cases resulted in significantly higher total actual project costs than the budgeted amount.

#### 16. Pipeline Piggability Status

Provide a list and map of pipelines that are currently piggable, highlighting pipe that was made piggable as a result of projects conducted under the PSEP. Provide the total mileage of transmission pipelines, the total mileage of pipelines that are currently piggable and percentage of the total that is piggable.

#### Response

As shown in Table 16-1 below, 197.00 miles of transmission pipeline (95.59 miles from Line 300A, 94.62 miles from Line 300B, and 6.79 miles from Line 132) were made piggable under PSEP from program inception through December 31, 2013. This increase reflects the completion of two additional pipeline retrofit/upgrade projects during the current reporting period (Line 132 mile points (MP) 31.93-38.40 and Line 300B MP 299.00-353.80).

TABLE 16-1
PACIFIC GAS AND ELECTRIC COMPANY
SEGMENTS MADE PIGGABLE UNDER PSEP

Route ID	Launch Mile Point	Receiver Mile Point	Piggable Distance(a)
132	31.93	38.40	6.79
300A	299.00	353.80	56.24
300A	354.19	393.53	39.35
300B	299.00	353.80	54.84
300B	354.09	393.61	39.78

<sup>(</sup>a) Piggable Distance is measured in PG&E's Geographic Information System (GIS) and does not necessarily equal the difference between launch mile point and receiver mile point.

Figure 16-1 shows PG&E's total piggable mileage by transmission pipeline. In total, there are 1,415.55 miles of piggable transmission pipeline (see Table 16-2), which amounts to 21 percent of PG&E's approximately 6,750 total transmission pipeline miles (as of December 31, 2013). Figure 16-2 provides a map of pipelines that are currently piggable, highlighting pipe that was made piggable as a result of projects conducted under the PSEP.

## FIGURE 16-1 PACIFIC GAS AND ELECTRIC COMPANY PIGGABLE MILEAGE BY TRANSMISSION LINE

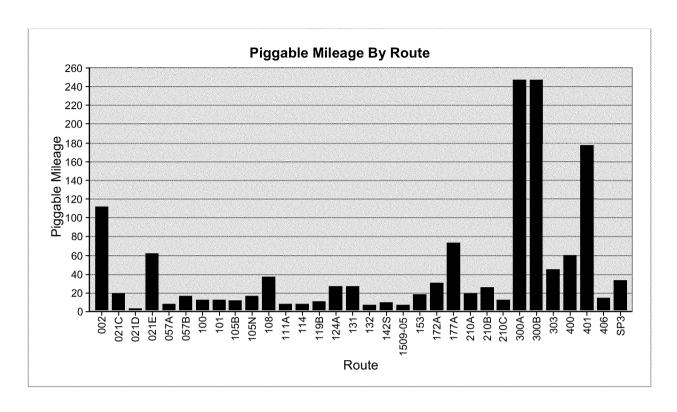


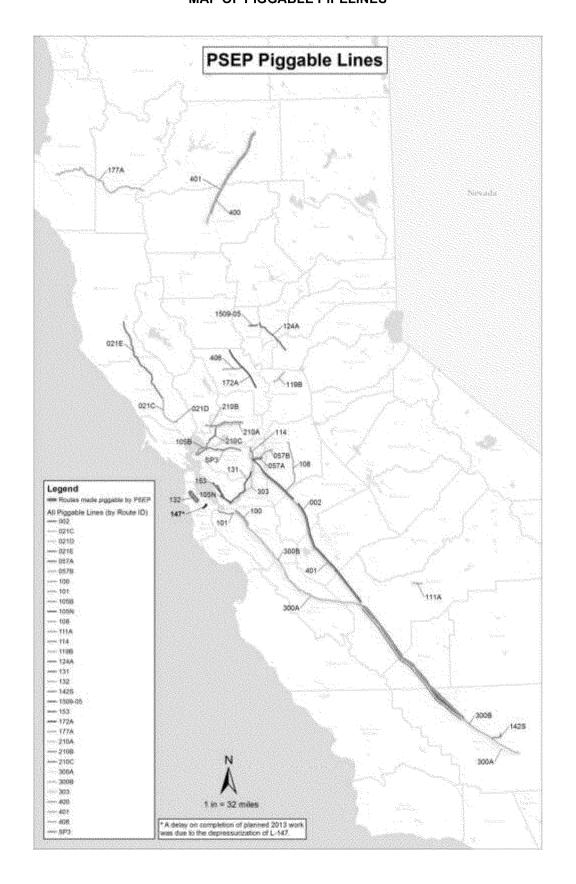
TABLE 16-2
PACIFIC GAS AND ELECTRIC COMPANY
PIGGABLE TRANSMISSION PIPELINE SEGMENTS

		line Segments	n!L!-
	Launch	Receiver	Piggable
Route	Mile Point	Mile Point	Distance <sup>1</sup>
002	43.45	118.02	75.28
002	122.06	158.00	36.39
021C	35.05	53.12	18.67
021D	18.64	21.88	3.24
021E	53.12	64.36	11.39
021E	64.54	93.67	30.77
021E	93.67	114.89	20.20
057A	9.20	16.68	7.39
057B	0.00	16.68	16.62
100	138.43	150.13	12.13
101	0.00	11.92	12.36
105B	0.00	11.81	11.84
105N	7.75	23.00	16.27
108	0.00	37.15	37.05
111A	20.32	27.58	7.26
114	9.03	16.59	8.02
119B	0.00	10.16	10.68
124A	0.00	26.03	26.42
131	24.88	50.57	26.65
132** 142S	31.93	38.40	6.79 9.06
	0.00	9.01	
1509-05	0.00	6.49	6.45
153	0.00	17.65	17.86
172A	40.07	69.81	29.78
177A	88.80	163.04	74,48
210A	1.38	19.47	18.98
210B	1.37	25.98	25.85
210C	19.46	32.11	12.75
300A	256.21	299.00	43.39
300A**	299.00	353.80	56.24
300A**	354.19	393.53	39.35
300A	393.53	450.83	57.29
300A	450.83	502.24	52.11
300B	256.64	299.00	43.22
300B**	299.00	353.80	54.84
300B**	354.09	393.61	39.78
300B	393.76	450.79	57.18
300B	450.79	502.64	52.42
303	0.00	42.83	44.72
400	82.33	142.61	60.28
401	82.34	149.19	67.01
401	317.95	427.98	110.06
406	0.00	13.80	13.84
SP3	167.31	198.49	33.19

<sup>\*</sup> Piggable Distance is measured in GIS and does not necessarily equal the difference between launcher mile point and receiver mile point.

<sup>\*\*</sup> PSEP segment.

## FIGURE 16-2 PACIFIC GAS AND ELECTRIC COMPANY MAP OF PIGGABLE PIPELINES



#### 17. Lessons Learned in Phase 1 Work

Describe any lessons learned from undertaking the Phase 1 work that has led to cost efficiencies and quantify any cost savings.

### Response

During the current reporting period, PSEP has continued to apply lessons learned and associated process improvements from prior reporting periods, including those previously reported in prior PSEP Compliance Reports. In addition, PSEP workstreams have also identified additional lessons learned during the current reporting period, including:

- Strength Testing In-Series: Successfully reused test water on several Strength Tests (T-211B-13 & T-209-13, T-318-14 & T-225-13, T-284-13 & TIM-269B-13, T-303B-14 & T-404-14) which resulted in reducing water management and disposal costs. This in-series testing also allowed the contractor to reduce mobilization costs and be more efficient with crew utilization. The contractor could send the digging crew out ahead of the testing crew and work on multiple tests at the same time to reduce stand-by costs. PG&E estimates that the average cost per mile of these longer in-series tests is approximately 36 percent less the average test cost which, over the 40.89 mile length of these in-series tests identified above, represents a comparative cost avoidance of approximately \$529,000.
- Establishment of Transmission Project Clearance Operations Team:

  A dedicated team of qualified employees was established to plan, prepare, and execute pipeline and station system clearances across the PG&E transmission system based upon project locations. The team has been focused on supporting large project work and has proven to be an essential element in enabling these projects to execute system clearances and meet peak demands in work in any given area. As part of supporting Alliance contractors' execution of "cut-and-cap" and "Tie-In" activities, this improvement is estimated to have potentially avoided costs in 2013 of approximately \$3.5 million to \$5.0 million.
- <u>Ultrasonic ILI Tool</u>: The Ultrasonic ILI tool was piloted on strength test projects (T-303B & T-304) as a pre-testing measure to identify any potential ruptures, leaks, or any other failures that could fail the strength test.
   Resultant anomalies were: multiple dent features interacting on longitudinal

seams, metal loss features of greater than 50 percent, dents on lamination, etc. The results for anomalies with immediate concerns were addressed prior to strength test or addressed afterwards. In addition, the ultrasonic technology found that the wall thickness of elbows was thicker than expected, which allowed the pipe to be strength tested at a higher pressure than originally planned. Overall, the tool provides additional information about the pipeline which may not be detected with a strength test—making the transmission pipeline system even safer.

During the current reporting period, PSEP workstreams commenced the compilation and assessment of cumulative lessons learned followed by identifying potential additional process improvements for implementation within the 2014 project portfolio.

### 18. Potential Enhancements to Phase 2 Planning and Budgeting

How will the work PG&E conducts in Phase 1 influence how PG&E will plan and estimate the costs of its proposed projects for Phase 2?

### Response

Consistent with our response in prior PSEP Compliance Reports, the work PG&E conducts in Phase 1 will directly influence how PG&E will plan and estimate the costs of proposed future pipeline safety work. This is reflected in PG&E's 2015 Gas Transmission and Storage (GT&S) Rate Case Application (A.13-12-012), filed on December 19, 2013 for the period of 2015-2017. Beginning January 1, 2015, PG&E is not forecasting PSEP work separately from other GT&S work.

In PSEP, PG&E selected and prioritized the work using the PSEP Decision Trees approved by the Commission in D.12-12-030. The focus was on enhancing the pipeline integrity in segments that had not previously been subjected to a pressure test. The work was prioritized based on location of pipeline segments in High Consequence Areas (HCA) and Class 3 and 4 locations that were operating at a Specified Minimum Yield Strength of 30 percent or greater.

This served as a good foundation to manage the potential risk by pipeline segments that had not previously been subjected to pressure testing. As demonstrated in the mitigation plans set forth in PG&E's 2015 GT&S Rate Case, PG&E is moving towards a more holistic approach to prioritizing the management of risk arising from the threats to its Transmission Pipe assets.

PG&E has implemented changes as a result of lessons learned from PSEP work about how to better enhance the integrity of its natural gas transmission system using components of the plan, such as strength testing, pipeline replacement, valve automation, retrofitting to make pipeline segments capable of ILI, and running ILIs. We used the principles, valuable lessons learned and efficiencies gained during PSEP to develop the mitigation programs in the forecast reflected in A.13-12-012 for these work activities. As such, the cost forecasts in the GT&S Rate Case related to the PSEP workstreams noted above were influenced based on our experience and actual costs incurred to date in PSEP.

These lessons learned and the transition from PSEP to the current mitigation programs, are discussed in Chapter 4 and reflected, as applicable, in the specific

mitigation programs in Chapter 4A of PG&E's December 19, 2013 Prepared Testimony. 24

PG&E 2015 Gas Transmission and Storage Rate Case (A.13-12-012) Prepared Testimony, Volume 1 of 2, Chapter 4: Asset Family – Transmission Pipe, Sections C2b and D; Chapter 4A: Transmission Pipe Integrity and Emergency Response Programs, Sections C and D.

### 19. Cost Impacts of Unexpected or Unforeseen Items

What, if any, significant unexpected or unforeseen items did PG&E encounter in undertaking the projects and what were the resulting cost impacts on a project-by-project basis?

### Response

Table 19-1 of the appendix provides PG&E's most recent risk management assessment with a project-by-project analysis of unexpected or unforeseen items that have affected 2013 completed projects and the resulting cost and schedule impacts, 25 and identifies ways in which PG&E is addressing these risks on an ongoing basis by incorporating the lessons learned into project delivery processes.

For projects completed in the fourth quarter of 2013, PG&E identified that "Unstable/Weak Soil"<sup>26</sup> and "Productivity Impacts"<sup>27</sup> caused the greatest cost increases totaling approximately \$2.75 million and \$2.33 million, respectively. "Permitting" and "Productivity Impacts"<sup>28</sup> accounted for the greatest number of schedule day delays totaling 204 and 189 days, respectively.

This report identifies the following main risk areas (with associated impacts) with recommendations:

### Unstable/Weak Soil (Cost and Schedule)

Results: While efforts are made to identify soil conditions and plan accordingly prior to construction start, it is difficult to fully determine the extent and precise area of unstable/weak soil. Only two projects, both replacement, experienced impacts related to weak soil. Construction crews on one had a particularly difficult time overcoming the soil conditions to complete the last 10,000 feet of excavation despite

Impacts are determined using baseline schedule and forecasts after completion of Job Estimate and prior to construction commencement.

Unstable soils may require additional shoring or other measures which may cause delays and an increase in costs to implement.

Potential impacts to contractor productivity may be caused by multiple issues (e.g., material/resource availability or one project in a group of coordinated or sequenced projects impacting another) which may result in a contractor moving to another construction location on-site or other methods of mitigation.

Productivity impacts include unplanned permitting conditions, requirements, and delays from various permitting agencies (e.g., limited working hours, limited access, delays in issuance, etc.) which may result in schedule and/or cost impacts.

- implementing several common methods. This resulted in cost increases and a schedule delay related to these efforts.
- Recommendations: Continue taking soil samples by using historical data and research to identify areas where difficult soil conditions may be encountered. Also continue to include costs in the Job Estimate, when appropriate, for handling of such conditions.

### Productivity Impacts (Cost and Schedule)

- Results: It was necessary to complete some projects in this quarter consecutively in order to ensure continued customer support.
   Consequently, later projects were impacted by delays in earlier projects.
   Regional coordination, particularly with Alliance contractors, enabled construction resources to move efficiently between projects and workstreams, thereby reducing the impact of this realized risk.
- Recommendations: Continue the increased coordination of PSEP workstream activities with regional construction resources, including combination with non-PSEP activities, when appropriate opportunities are identified. Continue to build portfolio of "back-up" projects available to commence construction, if required, to meet program commitments.

### Permitting (Cost and Schedule)

- Results: Primarily impacting an ILI project, schedule delays were experienced due to permits with long lead times from the San Francisco Public Utilities Commission (SFPUC) and Caltrans. Communications had been ongoing since 2012 for the SFPUC permit for this and other projects in the area. Alternatives such as condemnation were explored, but that process is also long and an agreement was ultimately reached with the SFPUC instead. The need for a second Caltrans permit was not identified until after construction began due to differing field conditions, and Caltrans' approval process cannot be expedited. Delays and/or cost impacts on other projects were due to a variety of permitting constraints (e.g., requirement of night work, extensive traffic control plans, etc.).
- Recommendations: Continue to apply for permits as early as possible, especially those known to have a long lead time, and keep up regular communications with permitting agencies in an attempt to limit impacts from constraints.

### Unexpected Conditions of Pipe, Valves, or Fittings<sup>29</sup> (Cost and Schedule)

- Results: Impacts related to this risk varied from conditions such as pipe laminations (i.e., imperfections in pipe wall material), other similar anomalies in pipe walls, or a new valve found to be defective. This risk and the manner in which it may materialize and impact a specific project is being identified as part of planning activities that also incorporate the local knowledge of gas transmission personnel (e.g., the recognition that there is a potential for pipe leaks during a specific strength test due to a history of agricultural land use and prior instances of damage from farming equipment on the pipeline). However, the exact timing, location and extent of impact are highly variable and have the potential to materially impact project cost and schedules (e.g., it may take several days and significant resources to locate a leak along a pipeline undergoing a Strength Test).
- Recommendations: Continue the monitoring of this risk using project risk registers, in particular for projects on the same line, in close proximity, or with similar pipeline attributes (e.g., shallow pipe). Continue to carry forward lessons learned from these and prior occurrences to improve the efficiency of response to future line damage or leaks (e.g., determining damage/leak location). Also continue exploring new leak detection methods, such as the In Vista inspection tool, an ultrasonic inspection tool, which was piloted on two Strength Test projects this quarter.

PG&E will continue to utilize lessons learned and is implementing plans, with the aid of new risk management software, to take an even more proactive approach to risk management in 2014.

Table 19-2 provides a reference for the specific data points requested in Question 19 to their corresponding column in Table 19-1 of the appendix. Additional data points are included for context in navigating the tables.

Pipe, valves, or fittings may be leaking or faulty, requiring additional work to repair or to replace them. This category does not include linear indications on the pipe, the occurrence of which are tracked in a separate category.

## TABLE 19-2 PACIFIC GAS AND ELECTRIC COMPANY DATA POINT/TABLE 19-1 COLUMN REFERENCE

Column Name	Description
Line #	Reference number for this report.
New PSRS	New PSRS number resulting from project split or addition.
Project Description	Order Description provided in workpapers supporting PG&E's August 26, 2011 filing for valve automation, ILI, and upgrades for ILI. Order Description provided in workpapers supporting PG&E's October 29, 2013 Update Application for pipeline replacement and strength testing.
Region	Region where line is located.
Risk	Categorization of risk factor affecting the project.
Description	Description of risk factor.
Cost Impact (\$)	Impact of risk to project cost.
Schedule Impact (Days)	Impact of risk to schedule in number of days.
>10% Variance	Projects greater than 10 percent over Job Estimate.
Comments	Description of how risk factor materialized.

### 20. Program Amount Authorized and Spent

Provide a table showing the total amount authorized for recovery from ratepayers and the total amount spent by PG&E year-to-date shown by month and broken down activity (e.g., hydrotesting, pipe replacement).

### Response

Table 20-1, in the appendix, shows the total amount spent by PG&E in the current reporting period and year-to-date, shown by month and broken down by activity. Amounts authorized for customer recovery are provided at the program activity level, consistent with the presentation in Attachment E of D.12-12-030.

### 21. Shareholder Costs Absorbed

Provide a table showing the total amount of costs that shareholders will absorb year-to-date shown by month and broken down activity (e.g., hydrotesting, pipe replacement).

### Response

Table 20-1, included in response to Question 20, provides the total amount of costs that shareholders have absorbed in the current reporting period and year-to-date, shown by month and broken down by activity. Amounts funded by shareholders are provided at the program activity level, consistent with the presentation in Attachment E to D.12-12-030.30

<sup>30</sup> Presentation of amounts funded by shareholders may vary for financial reporting purposes.

### 22. Forecast vs. Actual Mileage - Replacements

Provide a table showing the total mileage of pipe PG&E forecast to replace in R.11-02-019 and the mileage PG&E has replaced year-to-date. Identify the location, Line #, milepost, Class of the pipe replaced. Indicate whether the pipe is located in a High Consequence Area.

### Response

As of December 31, 2013, PG&E has replaced over 104 miles of gas transmission pipeline as part of the PSEP program. Table 22-1, below, provides the total pipeline miles PG&E forecast to replace in R.11-02-019 (i.e., PG&E's August 2011 Implementation Plan) and the total pipeline miles replaced from program inception through the end of this reporting period. Table 22-2 of the appendix provides detail on 30 projects completed (tied-in) in 2013 through the end of this reporting period, identifies the location, pipeline number, milepost, and class of the pipeline section replaced, and indicates whether the pipeline is located in a HCA on a project-by-project basis.

Table 22-3 provides a reference for the specific data points requested in Question 22 to their corresponding columns in Table 22-2 in the appendix. Additional data points are included for context in navigating the tables.

TABLE 22-1
PACIFIC GAS AND ELECTRIC COMPANY
TOTAL PIPELINE MILES REPLACED – FORECAST AND ACTUAL
APRIL 1, 2011 – DECEMBER 31, 2013

Pipeline Replacement	2011	2012	2013
Forecast R.11-02-019	0.3	39.0	64.0
Actual Replaced and Tied-in, retired or downrated(a)	0.3	40.0	50.0
Actual Installed Pending Tie-In			14.0
Total Actual	0.3	40.0	64.0(b)

<sup>(</sup>a) Mileage reflects pipeline lengths identified in August 26, 2011 PSEP filing and is subject to final engineering review of "as-built" drawings to validate segment-level completion of PSEP scope. Forecast may adjust in the future pending the outcome of PG&E's PSEP Update Application filed on October 29, 2013.

<sup>(</sup>b) PSEP-funded Pipeline Replacement for YTD accounted for 57.0 miles. In addition, PG&E replaced 7.0 miles of non-PSEP funded Pipeline Replacement miles YTD.

## TABLE 22-3 PACIFIC GAS AND ELECTRIC COMPANY DATA POINT/TABLE 22-2 COLUMN REFERENCE

Column Name	Description
Line #	Reference number for this report.
PSEP Filing PSRS	PSRS number provided in workpapers supporting PG&E's August 26, 2011 filing.
New PSRS	PSRS number provided in workpapers supporting PG&E Update Application for pipeline replacement or strength test projects commonly resulting from project split or addition.
Project Description	Order Description provided in workpapers supporting PG&E's August 26, 2011 filing for valve automation, ILI, and upgrades for ILI. Order Description provided in workpapers supporting PG&E's October 29, 2013 Update Application for pipeline replacement and strength testing.
Miles Completed	Miles of pipeline replaced or tested.
Line	Pipeline identifier.
MP1	Beginning project mile point.
MP2	Ending project mile point.
City	Location of project.
HCA	Project includes a High Consequence Area.
Class Code	Class of pipeline included in project.
Clearance Date	Date pipe was cleared and work authorized to begin.
Tie-In Date	Date pipe became operational and project completed.

### 23. Forecast vs. Actual Mileage – Strength Testing

Provide a table showing the mileage of pipe PG&E forecast to hydrotest in R.11-02-019 and the mileage PG&E has tested year-to-date. Identify the location, Line #, milepost, Class of the pipe tested. Indicate whether the pipe is located in a High Consequence Area.

### Response

As of December 31, 2013, PG&E has completed strength testing on over 538 miles of gas transmission pipeline since the inception of the PSEP program, in addition to the validation of the records of over 119 miles of prior strength tests as meeting the "traceable, verifiable and complete" standard. Table 23-1 below, provides the total pipeline miles PG&E forecast to strength test in R.11-02-019 (PG&E's August 2011 Implementation Plan) and the total strength tested through the end of this reporting period. Table 23-2 of the appendix provides detail on 74 completed projects, identifies the location, pipeline number, milepost, and class of the pipe tested, and indicates whether the pipe is located in a HCA on a project-by-project basis.

Table 23-3 provides a reference for the specific data points requested in Question 23 to their corresponding columns in Table 23-2 in the appendix. Additional data points are included for context in navigating the tables.

TABLE 23-1
PACIFIC GAS AND ELECTRIC COMPANY
TOTAL PIPELINE MILES STRENGTH TESTED – FORECAST AND ACTUAL
APRIL 1, 2011 – DECEMBER 31, 2013

Pipeline Strength Testing	2011	2012	2013
Forecast R.11-02-019	236.0	185.0	204.0
Actual Tested and Tied-in(a)(b)	163.6	176.2	198.8
Actual Records Validated(c)	50.9	27.8	39.7
Total Actual	214.5	204.0	238.5

<sup>(</sup>a) Mileage reflects pipeline lengths identified in August 26, 2011 PSEP filing and is subject to final engineering review of "as-built" drawings to validate segment-level completion of PSEP scope. Forecast may adjust in the future pending the outcome of PG&E's PSEP Update Application filed on October 29, 2013.

<sup>(</sup>b) Includes 2.6 miles in 2011, 36.3 miles in 2012 and 12.2 miles in 2013 of segments for which costs will not be included within PSEP costs.

<sup>(</sup>c) Includes pipeline miles for which records of a prior strength test were validated as meeting the traceable, verifiable and complete records standard.

## TABLE 23-3 PACIFIC GAS AND ELECTRIC COMPANY DATA POINT/TABLE 23-2 COLUMN REFERENCE

Column Name	Description
Line #	Reference number for this report.
PSEP Filing PSRS	PSRS number provided in workpapers supporting PG&E's August 26, 2011 filing.
New PSRS	PSRS number provided in workpapers supporting PG&E Update Application for pipeline replacement or strength test projects commonly resulting from project split or addition.
Project Description	Order Description provided in workpapers supporting PG&E's August 26, 2011 filing for valve automation, ILI, and upgrades for ILI. Order Description provided in workpapers supporting PG&E's October 29, 2013 Update Application for pipeline replacement and strength testing.
Miles Completed	Miles of pipeline replaced or tested.
Line	Pipeline identifier.
MP1	Beginning project mile point.
MP2	Ending project mile point.
City	Location of project.
HCA	Project includes a High Consequence Area.
Class Code	Class of pipeline included in project.
Clearance Date	Date pipe was cleared and work authorized to begin.
Tie-In Date	Date pipe became operational and project completed.

#### 24. Public Outreach Costs

Provide the costs of the public outreach PG&E has incurred year-to-date by month as compared to the amount authorized. Explain in detail what public outreach activities PG&E has engaged in.

### Response

Customer Outreach is included as an integral part of each PSEP construction project. Customer and community outreach costs incurred since program inception in 2011 are shown annually for 2011-2013 in Table 24-1. Monthly customer and community outreach costs for 2013 are shown in Table 24-2.

TABLE 24-1
PACIFIC GAS AND ELECTRIC COMPANY
PUBLIC OUTREACH COSTS
APRIL 1, 2011 – DECEMBER 31, 2013
(IN MILLIONS OF DOLLARS)

2011	2012	2013		
\$2.62	\$4.54	\$4.21		

TABLE 24-2
PACIFIC GAS AND ELECTRIC COMPANY
2013 MONTHLY PUBLIC OUTREACH COSTS
(IN MILLIONS OF DOLLARS)

Jan 2013		Mar 2013	•	•			_	•			
\$0.36	\$0.35	\$0.38	\$0.38	\$0.35	\$0.38	\$0.44	\$0.36	\$0.34	\$0.33	\$0.28	\$0.26

The CPUC's PSEP decision approved customer outreach costs, including governmental outreach, within individual project estimated costs. PG&E's estimated customer outreach costs varied by workstream driven by the nature of the work and were based upon a percentage of project costs before project management and escalation.

For pipeline replacement and strength testing projects the customer outreach cost estimate was 2.9 percent of estimated construction costs, and for valve automation projects the equivalent was 0.54 percent. Specific monthly authorized amounts cannot be accurately determined from D.12-12-030 due to individual project durations and the timing of activities within projects. Public outreach

activities undertaken by PSEP have included the use of Interactive Voice Responses (IVR or automated phone notifications), letters, open houses, signage, door-to-door canvassing, one-on-one customer phone calls and meetings, and customer group presentations. As of December 31, 2013, 39 open houses have been hosted, 222,155 letters have been mailed, and 368,275 IVR calls have been made to customers impacted by PSEP work during 2013.

Customer Outreach activities are managed on a consistent basis across PSEP workstreams by a dedicated team of Customer Impact Specialists within PG&E's Customer Care organization. Each project follows a standardized process for customer outreach which includes, but is not limited to:

- Site walk with project team to identify customer impacts.
- Letter to impacted customers.
- Invitation to an open house hosted by PG&E within the affected project area.
- Work location signage prior to mobilization.
- IVR sent to area customers prior to significant activities (e.g., venting/release of natural gas).
- Additional customer outreach and accommodations as dictated by the nature of the project (e.g., temporary relocation for nitrogen strength test).
- Local customer canvassing to identify and incorporate feedback into ongoing procedures.

In the second quarter, the Customer Outreach team added another touch point to the communications process for some projects. In an effort to increase open house attendance, the Customer Outreach team sent out an IVR reminder and/or canvassed an impacted area, inviting customers to attend the open house in their area. The IVR reminded customers of the date, time, and location of the open house. Canvassing visits involved leaving behind door hangers that included copies of the letter with an open house invitation that these customers had already received. During the current reporting period, the Customer Impact team has continued to utilize IVRs to remind customers of the date, time, and location of a local open house, along with canvassing visits leaving behind door hangers that include copies of the open house invitation which has resulted in a moderate increase in open house attendance, from an average of six to eight attendees per open house.

Customer Impact inserts additional customer touch points where deemed beneficial, depending on the particular situation. Customer Impact held a second open house on November 12, 2013 for R37, Line 172 Replacement project in West Sacramento. The project runs through the heart of West Sacramento, a heavy commercial area. The first open house was held in August 2013, prior to when construction was mobilized for the project. Complaints regarding loss of revenue due to construction inconvenience were received. In November, customers were sent a status update letter, informing them of the project's progress, and inviting them to attend another informational open house. In order to provide solutions and answers to issues customers were experiencing related to the project, subject matter experts for the replacement project and PG&E Claims representatives were in attendance at the open house. Energy Solutions and Service representatives were also in attendance to provide energy efficiency information to commercial and residential customers. Due to the significant customer impacts of this project, a weekly status update email was sent to the Washington Unified School District, Yolo Bus system, and the City of West Sacramento Fire Department.

In addition and as part of project design and planning activities, PG&E identifies and reviews specific customer impacts. Where customer loads are significant, PG&E will work with assigned account representatives to schedule activities to minimize the impact to customers. This may involve scheduling tests outside of agricultural peak periods as well as scheduling project activities to occur outside of school hours or other key events.

### 25. Service Outage Performance

Describe (e.g., provide date(s), location, Line #) all planned and unplanned service outages PG&E experienced in conducting the project work and explain how PG&E addressed customer needs during the outages. Were customers notified of any outages beforehand?

### Response

PG&E has successfully conducted gas transmission pipeline outages supporting 142 completed construction projects in 2013, with minimal impact to customer service. Tables 22-2 and 23-2 provide pipeline clearance dates, tie-in dates, <sup>31</sup> locations, and pipeline numbers, on a project-by-project basis for 30 completed pipe replacements and 74 strength test projects.

Table 25-1 of the appendix supplements these tables by providing information for 38 completed valve automation, in-line inspection upgrade, and in-line inspection projects in 2013. Table 25-2 provides a reference for the specific data points requested in Question 25 to their corresponding column in Table 25-1 in the appendix. Additional data points are included for context in navigating the tables.

The days between the clearance date and the tie-in date provides the number of pipeline outage days.

### TABLE 25-2 PACIFIC GAS AND ELECTRIC COMPANY DATA POINT/TABLE 25-1 COLUMN REFERENCE

Column Name	Description
Line #	Reference number for this report.
PSEP Filing PSRS	PSRS number provided in workpapers supporting PG&E's August 26, 2011 filing.
New PSRS	PSRS number provided in workpapers supporting PG&E Update Application for pipeline replacement or strength test projects commonly resulting from project split or addition.
Project Description	Order Description provided in workpapers supporting PG&E's August 26, 2011 filing for valve automation, ILI, and upgrades for ILI. Order Description provided in workpapers supporting PG&E's October 29, 2013 Update Application for pipeline replacement and strength testing.
Miles Completed/Valves Automated	Miles of pipeline replaced or tested; Number of valves automated.
Line	Pipeline identifier.
MP1	Beginning project mile point.
MP2	Ending project mile point.
City	Location of project.
HCA	Project includes a High Consequence Area.
Class Code	Class of pipeline included in project.
Clearance Date	Date pipe was cleared and work authorized to begin.
Tie-in Date	Date pipe became operational and project completed.

As previously mentioned, initial project design and planning activities include identification of potential customer impacts. PG&E specifically works to minimize the impact to customers and schedules work where possible to avoid customer outages by using existing system redundancies (e.g., cross compression, parallel pipes, or back-feeds to maintain customer service). This is a primary reason why many construction activities cannot take place during seasonal winter gas demand periods.

To mitigate potential customer impact, PG&E increased its LNG/CNG portable program to enable the increased avoidance of customer outages. Rising from 22 units in 2010 to 177 units targeted in 2013, the program continues to be an integral part of project planning and scheduling activities and has successfully met the significantly increasing demand for its services. The program has supported 7,386 customer tap days through the end of December 2013 using portable CNG equipment, 6,498 customer tap days for the same time period in

2012 and 354 customer tap days for the same period in 2010. This represents supporting approximately 20 separate locations per day for the year of 2013.

Where customer loads are significant, PG&E has worked with assigned account representatives to schedule activities to minimize impact and potentially avoid the significant costs associated with LNG support operations. This has involved scheduling tests outside of agricultural peak periods and commercial work hours and scheduling project activities to occur outside of school hours or key events.

### 26. Forecast Projects Not Completed or Replaced

Describe or provide a specific reference to PG&E's work papers of the projects that were not completed or replaced by a higher priority project and show the uncompleted project's associated costs. Compute the corresponding reduction to the Implementation Plan adopted amounts set out in Attachment E, as required by Ordering Paragraph 6.

### Response

PG&E's PSEP Update Application presents all pipeline replacement and strength testing projects that were not completed or have been cancelled and provides updated cost estimates of all previously authorized and proposed PSEP projects. PG&E's Update Application shows the corresponding reductions and additions to pipeline replacement and strength testing amounts set out in Attachment E, as required by OP 6 of D.12-12-030.

For the current reporting quarter no valve automation or ILI projects, previously listed as planned 2013 projects, with specific reference to prior PG&E workpapers were not completed or replaced by a higher priority project.<sup>32</sup>

For similar project data related to 2011 and 2012 projects refer to PSEP Compliance Report 2013-01.

### 27. Project Cost Recovery

Provide a clear explanation, for each project for which expenditures have been incurred, of how the project is necessary to comply with PSEP requirements rather than being included among projects that are already funded in D.11-04-031.

### Response

The scope of PG&E's PSEP is based upon pipeline segments previously identified as not having been strength tested, and/or without traceable, verifiable and complete records of such a test. The specific actions to be taken under PSEP, and the prioritization of such projects, are based upon the results of consistently applying a sequential decision process (PSEP Decision Tree) to pipeline segment features information. PG&E's original PSEP scope was based upon pipeline data as of January 2011 and PG&E anticipated that the update and completion of the review of pipeline segment information would alter the scope of PSEP's projects. During the PSEP proceeding, PG&E confirmed that the PSEP scope as filed excluded any pipeline segments previously included within other recovery mechanisms, including projects approved as part of the Gas Accord V Settlement in D.11-04-031.

To the extent that additional scope has been added to a PSEP project that does not meet the PSEP Decision Tree criteria (or it is a non-adjacent non-HCA, Class 1 or 2 pipe segments) PG&E has identified and is separately tracking costs associated with this increased project scope. Examples would include, an increase in pipeline diameter to support future capacity needs or a project identified in D.11-04-031 that is engineered, permitted and constructed with an adjacent PSEP project to capture efficiencies.

PG&E's August 26, 2011 PSEP filing, Workpapers Supporting Chapter 3, Gas Transmission Pipeline Modernization Update, and Chapter 4, Valve Automation Program provides descriptions of all planned PSEP ILI and valve projects that have been and will be performed in compliance with D.11-06-017, including the associated segment-level Decision Tree outcome identifier where applicable. PG&E's October 29, 2013 PSEP Update Application, Workpapers Supporting Chapter 2, Gas Transmission Pipeline Modernization Program Update provides descriptions of all planned PSEP pipeline replacement and strength test projects

which have been and will be performed in compliance with D.11-06-017, including the associated segment-level Decision Tree outcome identifier.

### 28. Record Improvement Efforts Progress

Progress report on record improvement efforts, including report on costs absorbed by shareholders.

### Response

PG&E's Mariner Project (formerly referred to as the "GTAM Project"), is part of the Pipeline Records Integration Program proposed in the PSEP filing (R.11-02-019). Mariner costs are included in Table 20-1 and are completely funded by shareholders in compliance with D.12-12-030. The goal of the Mariner Project is to further enhance the safety and reliability of PG&E's gas transmission system through increased access to pipeline systems data, integrated risk management and integrity management analytics, and improved work management. Specifically, the Mariner Project will:

- Improve data availability by eliminating paper-based work processes and installing tools to enable the electronic collection, processing, review, analysis, and integration of pipeline systems data.
- Improve PG&E's pipeline risk management capabilities by integrating different types of asset data into a single system.
- Support PG&E's PSEP and address the CPUC and National Transportation Safety Board concerns by enabling and supporting asset data that are traceable, verifiable and complete.
- Generate operational efficiencies related to the time: required to enter and upload data into the system, required to locate and collect information maintained in different offices and different records management systems, required to correlate and analyze engineering data, and associated with field force dispatch (as work assignments can be automated and optimized to minimize travel). Full realization of benefits is dependent on the integration of the various components of the Mariner Project.

The Mariner project made progress in several functional areas by providing new mobile devices to field personnel, replacing outdated hardware, providing access to electronic maps, deploying integrated risk management tools, and converting records into electronic formats. The Mariner Project is also progressing toward integrating work management and asset systems, and mobilizing corrective and preventative maintenance processes.

In PG&E's August 26, 2011 prepared testimony, PG&E described four phases of project development.<sup>33</sup> This report lists the activities that were included in each phase and provides a summary of the activities completed as of December 31, 2013. During October and November 2013, PG&E evaluated the Mariner Project and modified some of its management structure. Most of these changes involve modifying the management structure of the various Mariner initiatives, combining smaller projects into larger initiatives for improved oversight, and revising the schedule of some of the project components. In particular, the completion date for some of the asset maintenance and material traceability work has been extended from the first quarter of 2015 to the second half of 2015.

The following section details work and progress to date by each functional area affected by the Mariner Project in the current reporting period. Please see PSEP Compliance Reports Nos. 2013-02 and 2013-03 for progress made by each functional area prior to this reporting period.

Please refer to PSEP Compliance Report No. 2013-02 for a description of the Mariner Project's four phases.

Functional Area	Work Completed in Q4 (October 1 - December 31, 2013)	Mariner Project Phases
Leak Survey	Work continues within this functional area. No major milestones reached within this reporting period.(a)	Phases 0 and 1
Locate and Mark	Work within this functional area is now complete.(b)	Phase 0
Corrective Maintenance	Project Description This effort provides for an accurate and complete dataset of information recorded in IGIS and other corrective maintenance history to be included in SAP.	Phases 0 and 1
	Progress and Accomplishments     Completed testing of the SAP and mobile improvements as of December 31, 2013. The pilot for the corrective maintenance mobile application will commence in January 2014.	
Records Management	Work continues within this functional area. No major milestones reached within this reporting period.	Phase 1
Mobile Technology Foundation	Work continues within this functional area. No major milestones reached within this reporting period.(c)	Phase 2
Preventive Maintenance	Project Description Paperless process for documenting preventative maintenance work performed in the field Progress and Accomplishments  Completed testing of the SAP and mobile improvements as of December 31, 2013. The pilot for the preventive maintenance mobile application will commence in January 2014.	Phase 2
GIS	<ul> <li>Project Description</li> <li>Deployment of new Gas Transmission (GT) GIS system using data from the MAOP project that uses Linear Asset Management and is integrated with SAP.</li> <li>Progress and Accomplishments</li> <li>This functional area is in the process of validating asset data from multiple sources to be included in GT GIS.</li> <li>Implemented internal hosting of GT GIS for desktop and web client release 1.1 along with associated user interfaces.</li> <li>Established proposed retirement timeline of GasMap.</li> <li>Continued work to implement SAP Linear Asset Management functionality and system integration (SAP, Documentum, and GIS). Initiated plan/analyzed phase to develop the scope of the business requirements for GT GIS systems integration and data conversion.</li> </ul>	Phases 1, 2 and 3
Integrity Management	Project Description Implement industry standard "best practice" technology solutions to automate manual integrity analysis tasks and integrate tools with core enterprise systems  Progress and Accomplishments  Completed testing of Class Location and Risk Analysis tools.	Phase 1
Material Traceability	Work within this functional area has been pushed into late 2014 and planned for completion in late 2015.	Phases 0 and 1

<sup>(</sup>a) Major milestones were completed in Quarter 2 of 2013. Please refer to PSEP Compliance Report No. 2013-02 for additional details.

<sup>(</sup>b) Major milestones were completed in Quarter 2 of 2013. Please refer to PSEP Compliance Report No. 2013-02 for additional details.

<sup>(</sup>c) Major milestones were completed in Quarter 2 of 2013. Please refer to PSEP Compliance Report No. 2013-02 for additional details.

### 29. Additional Relevant Information

Any additional relevant information not listed above as specified in hearing Exh. 2 at 8E-1 and 8E-2.

### Response

PG&E considers that the information provided within this report covers all aspects previously outlined in *hearing Exh. 2 at 8E-1 and 8E-2.* 

# PACIFIC GAS AND ELEC TRIC COMPANY APPENDIX

PSEP Filing		Construction						>10% 0	WPT
	Order Number Project Description	City Contractor	Mobilization Date Tie-in Date	Job Estimate Amount Total Cost	Labor Cost Materials Cost Co	intracts Cost Other Cost Vari	ance to Budget PSEP D	isallowed Cost Non-PSEP costs Budge	et Comments
1 N/A 25791	R-114 L-114 RETIRE 0.70MI MP 8.18-8.91 30894012 PH1	Oakley H&M	6-Mar-13 24-Apr-13	\$ 264,013.00 \$ 972,002.86	\$ 113,356.09 \$ 12,890.18 \$	784,227.47 \$ 61,529.12 \$	707,989.86 \$	- \$ + Yes	Added as new project to replacement workstream to retire this portion of I-114_2 due to redundancy. Completed in conjunction with R-100, R-043, T-015-12, T-279-13.  Added as new retirement project from filed test project to
2 23874 26442	R-100 L-131 RETIRE 0.58MI MP 8.56-8.93 30906224 PH1	Oakley H&M	6-Mar-13 24-Apr-13	\$ 147,444.00 \$ 671,301.74	\$ 49,743.68 \$ 3,929.33 \$	581,793.21 \$ 35,835.52 \$	523,857.74 \$	- \$ - Yes	reduce redundant pipeline. Done in conjunction with R-
3 24022 24022	I-017 L300A MP353 to MP391 ILI 41482736 Inspection P&A	Kettleman City GT/GC	3-Apr-13 15-Apr-13			402,852.96 \$ 396,758.54 \$	(296,254.01) \$	- \$ - No	
4 23864 27569	41699027 T-174-12. Line DFM-1816-05. Watsonville	Watsonville Underground	17-Jun-13 29-Jul-13	\$ 2,513,651.00 \$ (71,396.10)	\$ - \$ 38,259.82 \$	1,670,338.27 \$ (1,779,994.19) \$	(2,585,047.10) \$	- \$ (71,396.10) No	Accelerated from 2014 to 2012 to facilitate pressure restoration on the line, subsequently delayed to 2013 as a result of material delivery delays and environmental permitting constraints (CA Tiger Salamander).
5 23762 23762	R-038 DFM-1813-02 REPL 0.01MI MP 1.00- 30841468 1.06 PH1		21-Jun-13 9-Jul-13			195,718.63 \$ 155,423.29 \$	159,531.24 \$	169,875,74 \$ - Yes	Delayed from 2012 to 2013 to accommodate other higher
									Delayed tie-in from 2012 to 2013 due to productivity impacts resulting from easement constraints during construction. Job Estimate (JE) created prior to project, split into 3 portions for constructability reasons and then allocated to each project based on mileage. However, this method did not take into account the 2 additional mob/de-
6 23688 26045	R-018 L-114_2 REPL 1.89MI MP 9.04- 30841472 10.50 PH1	Oakley Rockford	21-Sep-12 12-Jan-13	\$ 19,494,177.81 \$ 20,161,380.13	\$ 1,188,768.43 \$ 1,958,589.07 \$ :	16.054.601.86 \$ 978.016.53 \$	667,202.32 \$	18.595.76 \$ - No	mob costs, site restoration costs and other site specific
7 23694 23694	R-023 L-131_1 REPL 1:49MI MP 32:37- 30841473 33:77 PH1	Livermore GC/Snelson	15-Jan-13 24-Aug-13		\$ 2,095,106.62 \$ 1,660,719.77 \$	100 COMPANY 100 DO	1,099,815.12 \$	3,769.31 \$ - No	Delayed from 2012 to 2013 as a result of schedule
8 23807 23807	R-041 DFM-1020-01 REPL 2.47MI MP 0.00- 30842178 2.69 PH1	Butte GT/GC	31-May-12 14-Jan-13	\$ 3,000,000.70 \$ -	\$ 660.08 \$ 79.883.25 \$	84,586.29 \$ (165,129.62) \$	(3,000,000.70) \$	- \$ - No	retire or replace 1,200 High Pressure Regulators (HPRs) by
9 23802 31295	R-122 DFM-1306-01 REPL 0.01MI MP 1.48- 30842185 1.48 PH1		16-Sep-13 11-Oct-13			307,299.30 \$ 96,284.89 \$	26,343.53 \$	104,699.05 \$ - No	
00000	R-071 DFM-1502-08 REPL 0.25MI MP 0.01-								Accelerated from 2014 to 2012 to avoid a pressure reduction and to coordinate with Division work to convert
10 23862 23862	30842187 0.52 PH1  R-148 DFM-1617-01 REPL 0.85MI MP 0.82-	Yuba GT/GC	29-Oct-12 3-Jan-13	\$ 769,376.00 \$ 212,677.59	\$ 500,236.06 \$ 82,386.10 \$	116,141.44 \$ 122,519.77 \$	(556,698.41) \$	47,115.11 \$ - No	1
11 23682 23682 12 23720 26014	30842195 1.26 PH1 R-003 DFM-7221-10 REPL 4.65MI MP 30842201 12.07-16.13 PH1	Tracy GT/GC  Modesto Underground	10-Dec-13 20-Dec-13 21-May-13 12-Aug-13		\$ 577,197.01 \$ 50,469.99 \$ \$ 674,202.65 \$ 1,690,967.44 \$ :	252,462.23 \$ 68,405.28 \$ 18,490,367.95 \$ (2,136,355.04) \$	(1,708,817.49) \$ (10,588,949.88) \$	- \$ - No 8,132.85 \$ - No	Integrity Management assessments.
13 23832 26029	R-006 L-111A REPL 9.78MI MP 20.32- 30842215 27.57 PH1	Fresno Snelson	21-Aug-12 28-Feb-13	\$ 35,520,000.00 \$ 35,346,985.40	\$ 1,347,947.81 \$ 5,974,697.38 \$	25,112,534.43 \$ 2,958,920.89 \$	(173,014.60) \$	47,115.11 \$ - No	Delayed from 2012 to 2013 as a result of construction
14 23825 26033	R-005 L-138 REPL 7.29MI MP 38.36-45.08 30842223 PH1 R-102 L-162A REPL 0.35MI MP 7.40-7.72	Fresno Snelson	30-Jul-12 12-Aug-13	\$ 27,372,069.00 \$ 33,063,328.28	\$ 1,790,010.64 \$ 5,524,987.06 \$ 3	25,466,354.59 \$ 295,809.96 \$	5,691,259.28 \$	13,833.97 \$ - Yes	complexities requiring more time for engineering and planning.
15 23731 31029	30842225 PH1	Trans. Paglaga							
	R-105 DFM-1815-02 REPL 0.45MI MP	Tracy Snelson	13-Jun-13 15-Jul-13	\$ 2,387,228.00 \$ 2,142,184.10	\$ 237,080.68 \$ 54,314.21 \$	1,757,899.83 \$ 104,597.76 \$	(245,043.90) \$	11,708.38 \$ - No	Accelerated from 2014 to 2013 due to IM flags. Accelerated from 2014 to 2013 to offset delays on other
16 23769 23769	R-105 DFM-1815-02 REPL 0.45MI MP 30842226 18.76-19.24 PH1 R-137 L-173 REPL 0.02MI MP 5.50-5.51	Monterey Underground	17-Sep-13 31-Oct-13	\$ 4,310,426.00 \$ 5,075,795.68	\$ 723,339.45 \$ 175,675.41 \$	3,938,751.53 \$ 239,290.72 \$	765,369.68 \$	1,261.43 \$ - Yes	Accelerated from 2014 to 2013 to offset delays on other
17 23824 31696	R-105 DFM-1815-02 REPL 0.45MI MP 30842226 18.76-19.24 PH1 R-137 L-173 REPL 0.02MI MP 5.50-5.51 30842230 PH1 R-011 L-118A REPL 8.11MI MP 5.62-12.55	Monterey Underground  Rocklin GT/GC	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35	\$ 723,339.45 \$ 175,675.41 \$ \$ 564,259.17 \$ 100,021.27 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$	765,369.68 \$ (170,332.65) \$	1,261.43 \$ - Yes 133,357.83 \$ - No	Accelerated from 2014 to 2013 to offset delays on other
17 23824 31696 18 23743 26006	R-105 DFM-1815-02 REPL 0.45MI MP 30842226 18.76-19.24 PH1 R-137 L-173 REPL 0.02MI MP 5.50-5.51 30842230 PH1 R-011 L-118A REPL 8.11MI MP 5.62-12.55 PH1 R-022 L-109_2A REPL 3.50MI MP 13.65-	Monterey Underground  Rocklin GT/GC  Fresno Snelson	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49	\$ 723,339.45 \$ 175,675.41 \$ \$ 564,259.17 \$ 100,021.27 \$ \$ 1,195,480.37 \$ 6,420,098.51 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$	1,261.43 \$ - Yes 133,357.83 \$ - No 128,733.20 \$ - No	Accelerated from 2014 to 2013 to offset delays on other
17 23824 31696	R-105 DFM-1815-02 REPL 0.45MI MP 30842226 18.76-19.24 PH1 R-137 L-173 REPL 0.02MI MP 5.50-5.51 30842230 PH1 R-011 L-118A REPL 8.11MI MP 5.62-12.55 30842245 PH1	Monterey Underground  Rocklin GT/GC	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49	\$ 723,339.45 \$ 175,675.41 \$ \$ 564,259.17 \$ 100,021.27 \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ : \$ 2,020,810.17 \$ 2,626,157.62 \$ :	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$	765,369.68 \$ (170,332.65) \$	1,261.43 \$ - Yes 133,357.83 \$ - No	Accelerated from 2014 to 2013 to offset delays on other
17 23824 31696 18 23743 26006 19 23724 25727	R-105 DFM-1815-02 REPL 0.45MI MP 30842230 18.76-19.24 PH1 30842230 PH1 R-011 L-118A REPL 8.11MI MP 5.50-5.51 30842245 PH1 R-022 L-109_2A REPL 3.50MI MP 13.65- 30842248 16.93 PH1 V-053 Valve Auto - 4th & Jefferson, 1V,	Monterey Underground  Rocklin GT/GC  Fresno Snelson  Palo Alto/Stanford ARB	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ \$ \$ 305,937.82 \$ 261,457.37 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$	1,261.43 \$ - Yes 133,357.83 \$ - No 128,733.20 \$ - No 126,991.42 \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.
17 23824 31696 18 23743 26006 19 23724 25727 20 23655 23655	R-105 DFM-1815-02 REPL 0.45MI MP  30842226 18.76-19.24 PH1  R-137 L-173 REPL 0.02MI MP 5.50-5.51  30842230 PH1  R-011 L-118A REPL 8.11MI MP 5.62-12.55  PH1  R-022 L-109_2A REPL 3.50MI MP 13.65-  30842248 16.93 PH1  V-053 Valve Auto - 4th & Jefferson, 1V,  30842259 Ph. 1  30842260 V-052 Valve Auto - 51St Avenue, 1V, Ph. 1  30842262 V-072 Valve Auto - 8 Mile Pls, 2V, Ph. 1	Monterey Underground  Rocklin GT/GC  Fresno Snelson  Palo Alto/Stanford ARB  Oakland ARB	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-13 6-Nov-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ \$ \$ 305,937.82 \$ 261,457.37 \$ \$ \$ 312,649.06 \$ 193,225.90 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.
17 23824 31696 18 23743 26006 19 23724 25727 20 23655 23655 21 23651 23651	R-105 DFM-1815-02 REPL 0.45MI MP  30842226 18.76-19.24 PH1 R-137 L-173 REPL 0.02MI MP 5.50-5.51  R-011 L-118A REPL 8.11MI MP 5.62-12.55 PH1 R-022 L-109_2A REPL 3.50MI MP 13.65- 16.93 PH1 V-053 Valve Auto - 4th & Jefferson, 1V, Ph. 1  30842260 V-052 Valve Auto - 515t Avenue, 1V, Ph. 1  V-072 Valve Auto - 8 Mile Pls, 2V, Ph. 1 V-069 Valve Auto - 4 riport & French 30842263 Camp, 3V, Ph. 1	Monterey Underground Rocklin GT/GC Fresno Snelson Palo Alto/Stanford ARB Oakland ARB Oakland ARB	17-Sep-13 31-Oct 13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-13 6-Nov-13 9-Aug-13 25-Oct-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63 \$ 1,141,646.00 \$ 1,057,442.38	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ \$ \$ 305,937.82 \$ 261,457.37 \$ \$ \$ 312,649.06 \$ 193,225.90 \$ \$ 277,242.58 \$ 190,820.05 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$ 1,068,747.45 \$ 92,232.22 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$ (281,161.37) \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No  \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.
17     23824     31696       18     23743     26006       19     23724     25727       20     23655     23655       21     23651     23651       22     23656     23656	R-105 DFM-1815-02 REPL 0.45MI MP  30842230 18.76-19.24 PH1  R-137 L-173 REPL 0.02MI MP 5.50-5.51  PH1  R-011 L-118A REPL 8.11MI MP 5.62-12.55  PH1  R-022 L-109_2A REPL 3.50MI MP 13.65- 30842248 16.93 PH1  V-053 Valve Auto - 4th & Jefferson, 1V,  Ph. 1  30842250 V-052 Valve Auto - 515t Avenue, 1V, Ph. 1  V-069 Valve Auto - Airport & French	Monterey Underground  Rocklin GT/GC  Fresno Snelson  Palo Alto/Stanford ARB  Oakland ARB  Oakland ARB  Stockton Snelson	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-13 6-Nov-13 9-Aug-13 25-Oct-13 2-Aug-13 25-Sep-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63 \$ 1,141,646.00 \$ 1,057,442.38 \$ 1,360,282.00 \$ 1,089,728.39 \$ 1,181,296.00 \$ 1,203,227.64	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ \$ \$ 305,937.82 \$ 261,457.37 \$ \$ 312,649.06 \$ 193,225.90 \$ \$ 277,242.58 \$ 190,820.05 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ \$ 315,999.88 \$ 247,100.35 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$ 1,068,747.45 \$ 92,232.22 \$ 594,919.49 \$ (5,539.74) \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$ (281,161.37) \$ (84,203.62) \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No  - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.
17     23824     31696       18     23743     26006       19     23724     25727       20     23655     23655       21     23651     23651       22     23656     23656       23     23662     23662       24     23660     23660       25     23645     23645	R-105 DFM-1815-02 REPL 0.45MI MP  30842226 18.76-19.24 PH1  R-137 L-173 REPL 0.02MI MP 5.50-5.51  PH1  R-011 L-118A REPL 8.11MI MP 5.62-12.55 PH1  R-022 L-109_2A REPL 3.50MI MP 13.65- 30842248 16.93 PH1  V-053 Valve Auto - 4th & Jefferson, 1V, Ph. 1  30842259 Ph. 1  V-052 Valve Auto - 51St Avenue, 1V, Ph. 1  V-069 Valve Auto - 4 Mile Pls, 2V, Ph. 1  V-069 Valve Auto - Airport & French Camp, 3V, Ph. 1  V-070 Valve Auto - Airport & Sonora, 3V, 30842264 V-049 Valve Auto - Airport & Sonora, 3V, Ph. 1	Monterey Underground  Rocklin GT/GC  Fresno Snelson  Palo Alto/Stanford ARB  Oakland ARB  Oakland ARB  Stockton Snelson  Stockton Snelson  Stockton Snelson  Underground	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-13 6-Nov-13 9-Aug-13 25-Oct-13 2-Aug-13 25-Sep-13 23-Sep-13 2-Dec-13 15-Jul-13 19-Sep-13 16-Apr-13 10-Jul-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63 \$ 1,141,646.00 \$ 1,057,442.38 \$ 1,360,282.00 \$ 1,089,728.39 \$ 1,181,296.00 \$ 1,203,227.64 \$ 1,186,816.00 \$ 1,135,066.65	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ \$ \$ 305,937.82 \$ 261,457.37 \$ \$ 312,649.06 \$ 193,225.90 \$ \$ 277,242.58 \$ 190,820.05 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ \$ 315,999.88 \$ 247,100.35 \$ \$ 5 251,446.53 \$ 106,266.98 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$ 1,068,747.45 \$ 92,232.22 \$ 594,919.49 \$ (5,539.74) \$ 556,416.85 \$ 10,691.12 \$ 627,353.28 \$ 12,774.13 \$ 700,703.58 \$ 76,679.56 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$ (281,161.37) \$ (84,203.62) \$ (270,553.61) \$ 21,931.64 \$ (51,749.35) \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No  No  - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Delayed from 2012 to 2013 due to clearance constraints
17 23824 31696  18 23743 26006  19 23724 25727  20 23655 23655  21 23651 23651  22 23656 23656  23 23662 23662  24 23660 23660	R-105 DFM-1815-02 REPL 0.45MI MP  30842220 R-137 I-173 REPL 0.02MI MP 5.50-5.51  R-011 L-118A REPL 8.11MI MP 5.62-12.55  PH1 R-021 L-109_2A REPL 3.50MI MP 13.65- 30842248 16.93 PH1 V-053 Valve Auto - 4th & Jefferson, 1V,  30842259 Ph. 1  30842260 V-052 Valve Auto - 51St Avenue, 1V, Ph. 1 V-069 Valve Auto - 4irport & French Camp, 3V, Ph. 1 V-070 Valve Auto - Airport & French 30842264 V-049 Valve Auto - Airport & French 30842264 V-070 Valve Auto - Airport & French 30842264 V-049 Valve Auto - Airport & French 30842268 V-049 Valve Auto - Fairway Avenue, 2V, 30842283 V-015 Valve Auto - Edgewood, 6V, Ph. 1 V-051 Valve Auto - Fairway Avenue, 2V, 30842285 Ph. 1	Monterey Underground  Rocklin GT/GC  Fresno Snelson  Palo Alto/Stanford ARB  Oakland ARB  Oakland ARB  Stockton Snelson  Stockton Snelson  Stockton Snelson	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-13 6-Nov-13 9-Aug-13 25-Oct-13 2-Aug-13 25-Sep-13 23-Sep-13 2-Dec-13 15-Jul-13 19-Sep-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63 \$ 1,141,646.00 \$ 1,057,442.38 \$ 1,360,282.00 \$ 1,089,728.39 \$ 1,181,296.00 \$ 1,203,227.64 \$ 1,186,816.00 \$ 1,135,066.65 \$ 4,436,438.00 \$ 4,864,950.09	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ \$ \$ 305,937.82 \$ 261,457.37 \$ \$ 312,649.06 \$ 193,225.90 \$ \$ 277,242.58 \$ 190,820.05 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ \$ 315,999.88 \$ 247,100.35 \$ \$ 5 251,446.53 \$ 106,266.98 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$ 1,068,747.45 \$ 92,232.22 \$ 594,919.49 \$ (5,539.74) \$ 556,416.85 \$ 10,691.12 \$ 627,353.28 \$ 12,774.13 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$ (281,161.37) \$ (84,203.62) \$ (270,553.61) \$ 21,931.64 \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No  - \$ - No  - \$ - No  - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Delayed from 2012 to 2013 due to clearance constraints and difficulty in obtaining required permits.
17     23824     31696       18     23743     26006       19     23724     25727       20     23655     23655       21     23651     23651       22     23656     23656       23     23662     23662       24     23660     23645       25     23645     23645       26     23602     23602	R-105 DFM-1815-02 REPL 0.45MI MP  30842230 R-137 I-173 REPL 0.02MI MP 5.50-5.51  R-137 I-173 REPL 0.02MI MP 5.50-5.51  PH1 R-011 L-118A REPL 8.11MI MP 5.62-12.55  PH1 R-022 L-109_2A REPL 3.50MI MP 13.65- 30842248 16.93 PH1 V-053 Valve Auto - 4th & Jefferson, 1V, Ph. 1  30842259 Ph. 1 V-052 Valve Auto - 51St Avenue, 1V, Ph. 1 V-069 Valve Auto - 4 Mile Pls, 2V, Ph. 1 V-070 Valve Auto - Airport & French Camp, 3V, Ph. 1 V-070 Valve Auto - Airport & Sonora, 3V, Ph. 1 V-070 Valve Auto - Airport & Sonora, 3V, Ph. 1 V-049 Valve Auto - Airport & Sonora, 3V, Ph. 1 V-051 Valve Auto - Fairway Avenue, 2V, Ph. 1 V-028 Valve Auto - Half Moon Bay Tap, 30842289 2V, Ph. 1	Monterey Underground  Rocklin GT/GC  Fresno Snelson  Palo Alto/Stanford ARB  Oakland ARB  Oakland ARB  Stockton Snelson  Stockton Snelson  Stockton Snelson  Union City Underground	17-Sep-13 31-Oct 13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-13 6-Nov-13 9-Aug-13 25-Oct-13 2-Aug-13 25-Sep-13 23-Sep-13 2-Dec-13 15-Jul-13 19-Sep-13 16-Apr-13 10-Jul-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63 \$ 1,141,646.00 \$ 1,057,442.38 \$ 1,360,282.00 \$ 1,089,728.39 \$ 1,181,296.00 \$ 1,203,227.64 \$ 1,186,816.00 \$ 1,135,066.65 \$ 4,436,438.00 \$ 4,864,950.09 \$ 1,093,003.00 \$ 734,962.44	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ : \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ : \$ 305,937.82 \$ 261,457.37 \$ \$ 312,649.06 \$ 193,225.90 \$ \$ 277,242.58 \$ 190,820.05 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 251,416.53 \$ 106,266.98 \$ \$ \$ 502,897.35 \$ 2,184,818.08 \$ \$ \$ 502,897.35 \$ 2,184,818.08 \$ \$ \$ 315,320.35 \$ 130,627.20 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$ 1,068,747.45 \$ 92,232.22 \$ 594,919.49 \$ (5,539.74) \$ 556,416.85 \$ 10,691.12 \$ 627,353.28 \$ 12,774.13 \$ 700,703.58 \$ 76,679.56 \$ 6,564,832.65 \$ (4,387,597.99) \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$ (281,161.37) \$ (84,203.62) \$ (270,553.61) \$ 21,931.64 \$ (51,749.35) \$ 428,512.09 \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Delayed from 2012 to 2013 due to clearance constraints and difficulty in obtaining required permits.  Delayed from 2012 to 2013 due to clearance resource constraints.  Delayed from 2012 to 2013 due to difficulties in obtaining
17     23824     31696       18     23743     26006       19     23724     25727       20     23655     23655       21     23651     23651       22     23656     23656       23     23662     23662       24     23660     23660       25     23645     23645       26     23602     23602       27     23649     23649	R-105 DFM-1815-02 REPL 0.45MI MP  30842230 R-137 L-73 REPL 0.02MI MP 5.50-5.51  R-137 L-73 REPL 0.02MI MP 5.50-5.51  R-011 L-118A REPL 8.11MI MP 5.62-12.55  PH1  R-022 L-109_2A REPL 3.50MI MP 13.65- 16.93 PH1  V-053 Valve Auto - 4th & Jefferson, 1V,  Ph. 1  30842260 V-052 Valve Auto - 51St Avenue, 1V, Ph. 1  V-069 Valve Auto - 4Mile Pls, 2V, Ph. 1  V-070 Valve Auto - 4Mirport & French Camp, 3V, Ph. 1  V-070 Valve Auto - Alrport & Sonora, 3V, Ph. 1  30842263 V-049 Valve Auto - Alrarado, 1V, Ph. 1  V-049 Valve Auto - Alvarado, 1V, Ph. 1  30842283 V-015 Valve Auto - Edgewood, 6V, Ph. 1  V-051 Valve Auto - Fairway Avenue, 2V, Ph. 1  V-028 Valve Auto - Half Moon Bay Tap,	Monterey Underground Rocklin GT/GC Fresno Snelson Palo Alto/Stanford ARB Oakland ARB Oakland ARB Stockton Snelson Stockton Snelson Union City Underground Redwood City Underground San Leandro GT/GC	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-13 6-Nov-13 9-Aug-13 25-Oct-13 2-Aug-13 25-Sep-13 23-Sep-13 2-Dec-13 15-Jul-13 19-Sep-13 16-Apr-13 10-Jul-13 22-May-13 27-Nov-13 27-Feb-13 28-Jun-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63 \$ 1,141,646.00 \$ 1,057,442.38 \$ 1,360,282.00 \$ 1,089,728.39 \$ 1,181,296.00 \$ 1,203,227.64 \$ 1,186,816.00 \$ 1,135,066.65 \$ 4,436,438.00 \$ 4,864,950.09 \$ 1,093,003.00 \$ 734,962.44 \$ 893,119.00 \$ 1,051,161.57	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ : \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ : \$ 305,937.82 \$ 261,457.37 \$ \$ 312,649.06 \$ 193,225.90 \$ \$ 277,242.58 \$ 190,820.05 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 251,416.53 \$ 106,266.98 \$ \$ \$ 502,897.35 \$ 2,184,818.08 \$ \$ \$ 315,320.35 \$ 130,627.20 \$ \$ \$ 328,732.30 \$ 161,400.80 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$ 1,068,747.45 \$ 92,232.22 \$ 594,919.49 \$ (5,539.74) \$ 556,416.85 \$ 10,691.12 \$ 627,353.28 \$ 12,774.13 \$ 700,703.58 \$ 76,679.56 \$ 6,564,832.65 \$ (4,387,597.99) \$ 273,748.07 \$ 15,266.82 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$ (281,161.37) \$ (84,203.62) \$ (270,553.61) \$ 21,931.64 \$ (51,749.35) \$ 428,512.09 \$ (358,040.56) \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Delayed from 2012 to 2013 due to clearance constraints and difficulty in obtaining required permits.  Delayed from 2012 to 2013 due to clearance resource constraints.  Delayed from 2012 to 2013 due to difficulties in obtaining permits from the City of Sunnyvale for electrical service
17     23824     31696       18     23743     26006       19     23724     25727       20     23655     23655       21     23651     23651       22     23656     23656       23     23662     23662       24     23660     23660       25     23645     23645       26     23602     23602       27     23649     23649       28     23970     23970	R-105 DFM-1815-02 REPL 0.45MI MP  18.76-19.24 PH1  R-137 L-173 REPL 0.02MI MP 5.50-5.51  R-011 L-118A REPL 8.11MI MP 5.50-5.51  R-011 L-118A REPL 8.11MI MP 5.62-12.55  PH1  R-022 L-109_2A REPL 3.50MI MP 13.65- 16.93 PH1  V-053 Valve Auto - 4th & Jefferson, 1V,  Ph. 1  30842260  V-052 Valve Auto - 51St Avenue, 1V, Ph. 1  V-069 Valve Auto - Airport & French Camp, 3V, Ph. 1  V-070 Valve Auto - Airport & Sonora, 3V, Ph. 1  V-049 Valve Auto - Airport & Sonora, 3V, Ph. 1  30842268  V-049 Valve Auto - Fairway Avenue, 2V, Ph. 1  V-051 Valve Auto - Half Moon Bay Tap, 30842289  V-013 Valve Auto - Hamlin Court, 1V, Ph. 1  V-013 Valve Auto - Hamlin Court, 1V, Ph. 1  V-013 Valve Auto - Hamlin Court, 1V, Ph. 1  30842290  1  30842290  V-045 Valve Auto - Hamlin Court, 1V, Ph. 1	Monterey Underground Rocklin GT/GC Fresno Snelson Palo Alto/Stanford ARB Oakland ARB Oakland ARB Stockton Snelson Stockton Snelson Union City Underground Redwood City Underground San Leandro GT/GC San Mateo US Pipeline	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-13 6-Nov-13 9-Aug-13 25-Oct-13 2-Aug-13 25-Sep-13 23-Sep-13 2-Dec-13 15-Jul-13 19-Sep-13 16-Apr-13 10-Jul-13 22-May-13 27-Nov-13 27-Feb-13 28-Jun-13 2-Nov-12 13-Feb-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63 \$ 1,141,646.00 \$ 1,057,442.38 \$ 1,360,282.00 \$ 1,089,728.39 \$ 1,181,296.00 \$ 1,203,227.64 \$ 1,186,816.00 \$ 1,135,066.65 \$ 4,436,438.00 \$ 4,864,950.09 \$ 1,093,003.00 \$ 734,962.44 \$ 893,119.00 \$ 1,051,161.57	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ : \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ : \$ 305,937.82 \$ 261,457.37 \$ \$ 312,649.06 \$ 193,225.90 \$ \$ 277,242.58 \$ 190,820.05 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 251,416.53 \$ 106,266.98 \$ \$ \$ 502,897.35 \$ 2,184,818.08 \$ \$ \$ 315,320.35 \$ 130,627.20 \$ \$ \$ 328,732.30 \$ 161,400.80 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$ 1,068,747.45 \$ 92,232.22 \$ 594,919.49 \$ (5,539.74) \$ 556,416.85 \$ 10,691.12 \$ 627,353.28 \$ 12,774.13 \$ 700,703.58 \$ 76,679.56 \$  6,564,832.65 \$ (4,387,597.99) \$ 273,748.07 \$ 15,266.82 \$ 449,006.71 \$ 112,021.76 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$ (281,161.37) \$ (84,203.62) \$ (270,553.61) \$ 21,931.64 \$ (51,749.35) \$ 428,512.09 \$ (358,040.56) \$ 158,042.57 \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Delayed from 2012 to 2013 due to clearance constraints and difficulty in obtaining required permits.  Delayed from 2012 to 2013 due to clearance resource constraints.  Delayed from 2012 to 2013 due to difficulties in obtaining permits from the City of Sunnyvale for electrical service
17     23824     31696       18     23743     26006       19     23724     25727       20     23655     23655       21     23651     23651       22     23656     23656       23     23662     23662       24     23660     23660       25     23645     23645       26     23602     23602       27     23649     23649       28     23970     23970       29     23600     23600	R-105 DFM-1815-02 REPL 0.45MI MP  30842230 R-137 L-173 REPL 0.02MI MP 5.50-5.51 R-137 L-173 REPL 0.02MI MP 5.50-5.51 R-137 L-173 REPL 0.02MI MP 5.50-5.51 R-011 L-118A REPL 8.11MI MP 5.62-12.55 PH1 R-022 L-109_2A REPL 3.50MI MP 13.65- 16.93 PH1 V-053 Valve Auto - 4th & Jefferson, 1V, Ph. 1  30842260 V-052 Valve Auto - 51St Avenue, 1V, Ph. 1 V-069 Valve Auto - 8 Mile Pls, 2V, Ph. 1 V-069 Valve Auto - Airport & French 30842263 Camp, 3V, Ph. 1 V-070 Valve Auto - Airport & Sonora, 3V, 30842264 Ph. 1 30842268 V-049 Valve Auto - Alvarado, 1V, Ph. 1 V-051 Valve Auto - Fairway Avenue, 2V, Ph. 1 V-028 Valve Auto - Half Moon Bay Tap, 2V, Ph. 1 V-013 Valve Auto - Hamlin Court, 1V, Ph. 3 30842290 1	Monterey Underground  Rocklin GT/GC  Fresno Snelson  Palo Alto/Stanford ARB  Oakland ARB  Oakland ARB  Stockton Snelson  Stockton Snelson  Union City Underground  Redwood City Underground  San Leandro GT/GC  San Mateo US Pipeline	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-12 6-Nov-13 9-Aug-13 25-Oct-13 2-Aug-13 25-Sep-13 23-Sep-13 2-Dec-13 15-Jul-13 19-Sep-13 16-Apr-13 10-Jul-13 22-May-13 27-Nov-13 27-Feb-13 28-Jun-13 2-Nov-12 13-Feb-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63 \$ 1,141,646.00 \$ 1,057,442.38 \$ 1,360,282.00 \$ 1,089,728.39 \$ 1,181,296.00 \$ 1,203,227.64 \$ 1,186,816.00 \$ 1,135,066.65 \$ 4,436,438.00 \$ 4,864,950.09 \$ 1,093,003.00 \$ 734,962.44 \$ 893,119.00 \$ 1,051,161.57 \$ 1,580,499.00 \$ 1,123,286.44 \$ 1,266,169.00 \$ 1,031,459.65	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ \$ \$ 305,937.82 \$ 261,457.37 \$ \$ 312,649.06 \$ 193,225.90 \$ \$ 277,242.58 \$ 190,820.05 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 251,416.53 \$ 106,266.98 \$ \$ \$ 251,416.53 \$ 106,266.98 \$ \$ \$ 315,320.35 \$ 130,627.20 \$ \$ \$ 328,732.30 \$ 161,400.80 \$ \$ \$ 247,227.28 \$ 210,984.26 \$ \$ \$ 369,201.47 \$ 193,537.49 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$ 1,068,747.45 \$ 92,232.22 \$ 594,919.49 \$ (5,539.74) \$ 556,416.85 \$ 10,691.12 \$ 627,353.28 \$ 12,774.13 \$ 700,703.58 \$ 76,679.56 \$  6,564,832.65 \$ (4,387,597.99) \$ 273,748.07 \$ 15,266.82 \$ 449,006.71 \$ 112,021.76 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$ (281,161.37) \$ (84,203.62) \$ (270,553.61) \$ 21,931.64 \$ (51,749.35) \$ 428,512.09 \$ (358,040.56) \$ 158,042.57 \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Delayed from 2012 to 2013 due to clearance constraints and difficulty in obtaining required permits.  Delayed from 2012 to 2013 due to clearance resource constraints.  Delayed from 2012 to 2013 due to difficulties in obtaining permits from the City of Sunnyvale for electrical service
17     23824     31696       18     23743     26006       19     23724     25727       20     23655     23655       21     23651     23651       22     23656     23656       23     23662     23662       24     23660     23645       25     23645     23645       26     23602     23602       27     23649     23649       28     23970     23970       29     23600     23600       30     23635     23635       31     23637     23637       32     23606     23606	R-105 DFM-1815-02 REPL 0.45MI MP 30842230 R-137 L-173 REPL 0.02MI MP 5.50-5.51 R-011 L-118A REPL 8.11MI MP 5.62-12.55 PH1 R-012 L-109_2A REPL 3.50MI MP 13.65-16.93 PH1 V-053 Valve Auto - 4th & Jefferson, 1V, Ph. 1  30842260 V-052 Valve Auto - 51St Avenue, 1V, Ph. 1 V-059 Valve Auto - 8 Mile Pls, 2V, Ph. 1 V-059 Valve Auto - Airport & French 30842262 V-072 Valve Auto - Airport & Sonora, 3V, Ph. 1 V-070 Valve Auto - Airport & Sonora, 3V, Ph. 1 V-070 Valve Auto - Fairway Avenue, 2V, Ph. 1 V-051 Valve Auto - Edgewood, 6V, Ph. 1 V-051 Valve Auto - Hamlin Court, 1V, Ph. 1 30842289 V-015 Valve Auto - Hamlin Court, 1V, Ph. 1 V-013 Valve Auto - East Airway, 3V, Ph. 1 V-047 Valve Auto - Livermore Junction, 30842301 V-049 Valve Auto - Martin Station, 4V, Ph. 30842303 1	Monterey Underground Rocklin GT/GC Fresno Snelson Palo Alto/Stanford ARB Oakland ARB Oakland ARB Stockton Snelson Stockton Snelson Union City Underground Redwood City Underground San Leandro GT/GC San Mateo US Pipeline Sunnyvale Snelson Livermore Underground Daly City Snelson	17-Sep-13 31-Oct 13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-13 6-Nov-13 9-Aug-13 25-Oct 13 2-Aug-13 25-Sep-13 23-Sep-13 2-Dec-13 15-Jul-13 19-Sep-13 16-Apr-13 10-Jul-13 22-May-13 27-Nov-13 27-Feb-13 28-Jun-13 2-Nov-12 13-Feb-13 28-Aug-12 1-Apr-13 18-Sep-13 4-Nov-13 28-Aug-13 25-Sep-13 6-Sep-12 25-Apr-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63 \$ 1,141,646.00 \$ 1,057,442.38 \$ 1,360,282.00 \$ 1,089,728.39 \$ 1,181,296.00 \$ 1,203,227.64 \$ 1,186,816.00 \$ 1,135,066.65 \$ 4,436,438.00 \$ 4,864,950.09 \$ 1,093,003.00 \$ 734,962.44 \$ 893,119.00 \$ 1,051,161.57 \$ 1,580,499.00 \$ 1,051,161.57 \$ 1,580,499.00 \$ 1,031,459.65 \$ 1,112,613.00 \$ 841,568.26 \$ 1,176,884.00 \$ 1,022,542.44	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ : \$ 2,020,810.17 \$ 2,626,157.62 \$ : \$ 305,937.82 \$ 261,457.37 \$ \$ 312,649.06 \$ 193,225.90 \$ \$ 277,242.58 \$ 190,820.05 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 251,416.53 \$ 106,266.98 \$ \$ \$ 502,897.35 \$ 2,184,818.08 \$ \$ 315,320.35 \$ 130,627.20 \$ \$ 328,732.30 \$ 161,400.80 \$ \$ \$ 247,227.28 \$ 210,984.26 \$ \$ 369,201.47 \$ 193,537.49 \$ \$ 277,305.19 \$ 131,964.50 \$ \$ \$ 277,305.19 \$ 131,964.50 \$ \$ \$ 250,884.35 \$ 136,850.19 \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ 250,884.35 \$ \$ 15,850.19 \$ \$ \$ \$ 250,884.35 \$ 250,884.35 \$ \$ 250,884.35 \$ 250,884.35 \$ \$ 250,884.35 \$ 250,884.35 \$ 250,884.35 \$ \$ 250,884.35 \$ 250,884.35 \$ 250,884.35 \$ 2	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$ 1,068,747.45 \$ 92,232.22 \$ 594,919.49 \$ (5,539.74) \$ 556,416.85 \$ 10,691.12 \$ 627,353.28 \$ 12,774.13 \$ 700,703.58 \$ 76,679.56 \$  6,564,832.65 \$ (4,387,597.99) \$ 273,748.07 \$ 15,266.82 \$ 449,006.71 \$ 112,021.76 \$ 600,751.96 \$ 64,322.94 \$ 393,269.32 \$ 75,451.37 \$ 379,817.83 \$ 52,480.74 \$ 647,314.01 \$ 108,493.89 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$ (281,161.37) \$ (84,203.62) \$ (270,553.61) \$ 21,931.64 \$ (51,749.35) \$ 428,512.09 \$ (358,040.56) \$ 158,042.57 \$ (457,212.56) \$ (234,709.35) \$ (271,044.74) \$ (154,341.56) \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Delayed from 2012 to 2013 due to clearance constraints and difficulty in obtaining required permits.  Delayed from 2012 to 2013 due to clearance resource constraints.  Delayed from 2012 to 2013 due to difficulties in obtaining permits from the City of Sunnyvale for electrical service connections.  Delayed from 2012 to 2013 due to clearance constraints and construction complexities.
17     23824     31696       18     23743     26006       19     23724     25727       20     23655     23655       21     23651     23656       23     23662     23662       24     23660     23660       25     23645     23645       26     23602     23602       27     23649     23649       28     23970     23970       29     23600     23600       30     23635     23635       31     23637     23606       33     23663     23663	R-105 DFM-1815-02 REPL 0.45MI MP  18.76-19.24 PH1  R-137 L-713 REPL 0.02MI MP 5.50-5.51  R-011 L-118A REPL 8.11MI MP 5.62-12.55  PH1  R-012 L-109_2A REPL 3.50MI MP 13.65- 16.93 PH1  V-053 Valve Auto - 4th & Jefferson, 1V,  30842259  Ph. 1  30842260  V-052 Valve Auto - 515t Avenue, 1V, Ph. 1  V-070 Valve Auto - 5 Mile Pls, 2V, Ph. 1  V-070 Valve Auto - Airport & French 20842263  V-049 Valve Auto - Airport & Sonora, 3V, Ph. 1  V-070 Valve Auto - Airport & Sonora, 3V, Ph. 1  V-049 Valve Auto - Fairway Avenue, 2V, Ph. 1  V-051 Valve Auto - Half Moon Bay Tap, 30842289  V-048 Valve Auto - Half Moon Bay Tap, 30842290  1  V-047 Valve Auto - Livermore Junction, 2V, Ph. 1  V-047 Valve Auto - Livermore Junction, 30842301  V-047 Valve Auto - Livermore Junction, 30842303  1  30842303  V-057 Valve Auto - Martin Station, 4V, Ph. 3 30842303  V-057 Valve Auto - Dalm Tract, 2V, Ph. 1 V-061 Valve Auto - Sac Gas Load Center,	Monterey Underground Rocklin GT/GC Fresno Snelson Palo Alto/Stanford ARB Oakland ARB Stockton Snelson Stockton Snelson Union City Underground San Leandro GT/GC San Mateo US Pipeline Sunnyvale Snelson Livermore Snelson Underground Daly City Snelson	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-13 6-Nov-13 9-Aug-13 25-Oct-13 2-Aug-13 25-Oct-13 23-Sep-13 2-Dec-13 15-Jul-13 19-Sep-13 16-Apr-13 10-Jul-13 27-Feb-13 28-Jun-13 27-Feb-13 28-Jun-13 28-Aug-12 1-Apr-13 18-Sep-13 4-Nov-13 28-Aug-13 25-Sep-13 6-Sep-12 25-Apr-13 11-Jul-13 7-Aug-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63 \$ 1,141,646.00 \$ 1,057,442.38 \$ 1,360,282.00 \$ 1,089,728.39 \$ 1,181,296.00 \$ 1,203,227.64 \$ 1,186,816.00 \$ 1,135,066.65 \$ 4,436,438.00 \$ 4,864,950.09 \$ 1,093,003.00 \$ 734,962.44 \$ 893,119.00 \$ 1,051,161.57 \$ 1,580,499.00 \$ 1,031,459.65 \$ 1,112,613.00 \$ 841,568.26 \$ 1,176,884.00 \$ 1,022,542.44 \$ 469,761.00 \$ 365,822.01	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ : \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ : \$ 305,937.82 \$ 261,457.37 \$ \$ 312,649.06 \$ 193,225.90 \$ \$ 277,242.58 \$ 190,820.05 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 251,416.53 \$ 106,266.98 \$ \$ \$ 251,416.53 \$ 106,266.98 \$ \$ \$ 315,320.35 \$ 130,627.20 \$ \$ 328,732.30 \$ 161,400.80 \$ \$ \$ 247,227.28 \$ 210,984.26 \$ \$ 369,201.47 \$ 193,537.49 \$ \$ \$ 277,305.19 \$ 131,964.50 \$ \$ \$ 250,884.35 \$ 15,850.19 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$ 1,068,747.45 \$ 92,232.22 \$ 594,919.49 \$ (5,539.74) \$ 556,416.85 \$ 10,691.12 \$ 627,353.28 \$ 12,774.13 \$ 700,703.58 \$ 76,679.56 \$  6,564,832.65 \$ (4,387,597.99) \$ 273,748.07 \$ 15,266.82 \$ 449,006.71 \$ 112,021.76 \$ 600,751.96 \$ 64,322.94 \$ 393,269.32 \$ 75,451.37 \$ 379,817.83 \$ 52,480.74 \$ 647,314.01 \$ 108,493.89 \$ 113,540.27 \$ 7,443.84 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$ (281,161.37) \$ (84,203.62) \$ (270,553.61) \$ 21,931.64 \$ (51,749.35) \$ 428,512.09 \$ (358,040.56) \$ 158,042.57 \$ (457,212.56) \$ (234,709.35) \$ (271,044.74) \$ (154,341.56) \$ (103,938.99) \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Delayed from 2012 to 2013 due to clearance constraints and difficulty in obtaining required permits.  Delayed from 2012 to 2013 due to clearance resource constraints.  Delayed from 2012 to 2013 due to difficulties in obtaining permits from the City of Sunnyvale for electrical service connections.  Delayed from 2012 to 2013 due to clearance constraints and construction complexities.
17     23824     31696       18     23743     26006       19     23724     25727       20     23655     23655       21     23651     23651       22     23656     23656       23     23662     23662       24     23660     23645       25     23645     23645       26     23602     23602       27     23649     23649       28     23970     23970       29     23600     23600       30     23635     23635       31     23637     23637       32     23606     23606	R-105 DFM-1815-02 REPL 0.45MI MP 18.76-19.24 PH1 R-137 L-173 REPL 0.02MI MP 5.50-5.51 R-011 L-118A REPL 8.11MI MP 5.50-5.51 R-011 L-118A REPL 8.11MI MP 5.62-12.55 PH1 R-022 L-109_2A REPL 3.50MI MP 13.65- 16.93 PH1 V-053 Valve Auto - 4th & Jefferson, 1V, Ph. 1  30842260 V-052 Valve Auto - 51St Avenue, 1V, Ph. 1 V-069 Valve Auto - 8 Mile Pls, 2V, Ph. 1 V-069 Valve Auto - Airport & French Camp, 3V, Ph. 1 V-070 Valve Auto - Airport & Sonora, 3V, Ph. 1 30842263 V-049 Valve Auto - Airport & Sonora, 3V, Ph. 1 V-049 Valve Auto - Fairway Avenue, 2V, Ph. 1 V-051 Valve Auto - Half Moon Bay Tap, 30842289 V-048 Valve Auto - Hamlin Court, 1V, Ph. 1 V-047 Valve Auto - Livermore Junction, 30842300 V-045 Valve Auto - Bast Airway, 3V, Ph. 1 V-047 Valve Auto - Livermore Junction, 30842301 V-019 Valve Auto - Martin Station, 4V, Ph. 3 30842303 1 30842308 V-057 Valve Auto - Palm Tract, 2V, Ph. 1	Monterey Underground Rocklin GT/GC Fresno Snelson Palo Alto/Stanford ARB Oakland ARB Oakland ARB Stockton Snelson Stockton Snelson Union City Underground Redwood City Underground San Leandro GT/GC San Mateo US Pipeline Sunnyvale Snelson Livermore Underground Daly City Snelson	17-Sep-13 31-Oct 13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-13 6-Nov-13 9-Aug-13 25-Oct 13 2-Aug-13 25-Sep-13 23-Sep-13 2-Dec-13 15-Jul-13 19-Sep-13 16-Apr-13 10-Jul-13 22-May-13 27-Nov-13 27-Feb-13 28-Jun-13 2-Nov-12 13-Feb-13 28-Aug-12 1-Apr-13 18-Sep-13 4-Nov-13 28-Aug-13 25-Sep-13 6-Sep-12 25-Apr-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63 \$ 1,141,646.00 \$ 1,057,442.38 \$ 1,360,282.00 \$ 1,089,728.39 \$ 1,181,296.00 \$ 1,203,227.64 \$ 1,186,816.00 \$ 1,135,066.65 \$ 4,436,438.00 \$ 4,864,950.09 \$ 1,093,003.00 \$ 734,962.44 \$ 893,119.00 \$ 1,051,161.57 \$ 1,580,499.00 \$ 1,031,459.65 \$ 1,112,613.00 \$ 841,568.26 \$ 1,176,884.00 \$ 1,022,542.44 \$ 469,761.00 \$ 365,822.01	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ : \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ : \$ 305,937.82 \$ 261,457.37 \$ \$ 312,649.06 \$ 193,225.90 \$ \$ 277,242.58 \$ 190,820.05 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 251,416.53 \$ 106,266.98 \$ \$ \$ 251,416.53 \$ 106,266.98 \$ \$ \$ 315,320.35 \$ 130,627.20 \$ \$ 328,732.30 \$ 161,400.80 \$ \$ \$ 247,227.28 \$ 210,984.26 \$ \$ 369,201.47 \$ 193,537.49 \$ \$ \$ 277,305.19 \$ 131,964.50 \$ \$ \$ 250,884.35 \$ 15,850.19 \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$ 1,068,747.45 \$ 92,232.22 \$ 594,919.49 \$ (5,539.74) \$ 556,416.85 \$ 10,691.12 \$ 627,353.28 \$ 12,774.13 \$ 700,703.58 \$ 76,679.56 \$  6,564,832.65 \$ (4,387,597.99) \$ 273,748.07 \$ 15,266.82 \$ 449,006.71 \$ 112,021.76 \$ 600,751.96 \$ 64,322.94 \$ 393,269.32 \$ 75,451.37 \$ 379,817.83 \$ 52,480.74 \$ 647,314.01 \$ 108,493.89 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$ (281,161.37) \$ (84,203.62) \$ (270,553.61) \$ 21,931.64 \$ (51,749.35) \$ 428,512.09 \$ (358,040.56) \$ 158,042.57 \$ (457,212.56) \$ (234,709.35) \$ (271,044.74) \$ (154,341.56) \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Delayed from 2012 to 2013 due to clearance constraints and difficulty in obtaining required permits.  Delayed from 2012 to 2013 due to difficulties in obtaining permits from the City of Sunnyvale for electrical service connections.  Delayed from 2012 to 2013 due to clearance constraints and construction complexities.
17     23824     31696       18     23743     26006       19     23724     25727       20     23655     23655       21     23651     23656       23     23662     23662       24     23660     23660       25     23645     23645       26     23602     23602       27     23649     23649       28     23970     23970       29     23600     23600       30     23635     23635       31     23637     23606       33     23663     23663	R-105 DFM-1815-02 REPL 0.45MI MP  18.76-19.24 PH1  R-137 L-713 REPL 0.02MI MP 5.50-5.51  R-011 L-118A REPL 8.11MI MP 5.62-12.55  PH1  R-012 L-109_2A REPL 3.50MI MP 13.65- 16.93 PH1  V-053 Valve Auto - 4th & Jefferson, 1V,  30842259  Ph. 1  30842260  V-052 Valve Auto - 515t Avenue, 1V, Ph. 1  V-070 Valve Auto - 5 Mile Pls, 2V, Ph. 1  V-070 Valve Auto - Airport & French 20842263  V-049 Valve Auto - Airport & Sonora, 3V, Ph. 1  V-070 Valve Auto - Airport & Sonora, 3V, Ph. 1  V-049 Valve Auto - Fairway Avenue, 2V, Ph. 1  V-051 Valve Auto - Half Moon Bay Tap, 30842289  V-048 Valve Auto - Half Moon Bay Tap, 30842290  1  V-047 Valve Auto - Livermore Junction, 2V, Ph. 1  V-047 Valve Auto - Livermore Junction, 30842301  V-047 Valve Auto - Livermore Junction, 30842303  1  30842303  V-057 Valve Auto - Martin Station, 4V, Ph. 3 30842303  V-057 Valve Auto - Dalm Tract, 2V, Ph. 1 V-061 Valve Auto - Sac Gas Load Center,	Monterey Underground Rocklin GT/GC Fresno Snelson Palo Alto/Stanford ARB Oakland ARB Stockton Snelson Stockton Snelson Union City Underground San Leandro GT/GC San Mateo US Pipeline Sunnyvale Snelson Livermore Snelson Underground Daly City Snelson	17-Sep-13 31-Oct-13 24-Jun-13 29-Jul-13 15-Jul-13 23-Nov-13 4-Sep-12 19-Jun-13 24-Sep-13 6-Nov-13 9-Aug-13 25-Oct-13 2-Aug-13 25-Oct-13 23-Sep-13 2-Dec-13 15-Jul-13 19-Sep-13 16-Apr-13 10-Jul-13 27-Feb-13 28-Jun-13 27-Feb-13 28-Jun-13 28-Aug-12 1-Apr-13 18-Sep-13 4-Nov-13 28-Aug-13 25-Sep-13 6-Sep-12 25-Apr-13 11-Jul-13 7-Aug-13	\$ 4,310,426.00 \$ 5,075,795.68 \$ 997,837.00 \$ 827,504.35 \$ 47,190,000.00 \$ 40,394,456.49 \$ 55,800,000.28 \$ 42,573,582.11 \$ 2,226,644.00 \$ 1,562,880.75 \$ 1,948,016.00 \$ 1,666,854.63 \$ 1,141,646.00 \$ 1,057,442.38 \$ 1,360,282.00 \$ 1,089,728.39 \$ 1,181,296.00 \$ 1,203,227.64 \$ 1,186,816.00 \$ 1,135,066.65 \$ 4,436,438.00 \$ 4,864,950.09 \$ 1,093,003.00 \$ 734,962.44 \$ 893,119.00 \$ 1,051,161.57 \$ 1,580,499.00 \$ 1,031,459.65 \$ 1,112,613.00 \$ 1,022,542.44 \$ 469,761.00 \$ 365,822.01 \$ 1,605,302.00 \$ 1,238,151.58	\$ 723,339.45 \$ 175,675.41 \$ \$ \$ 564,259.17 \$ 100,021.27 \$ \$ \$ 1,195,480.37 \$ 6,420,098.51 \$ : \$ \$ 2,020,810.17 \$ 2,626,157.62 \$ : \$ 305,937.82 \$ 261,457.37 \$ \$ 312,649.06 \$ 193,225.90 \$ \$ 277,242.58 \$ 190,820.05 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 259,533.82 \$ 263,086.60 \$ \$ 251,416.53 \$ 106,266.98 \$ \$ 251,416.53 \$ 106,266.98 \$ \$ \$ 315,320.35 \$ 130,627.20 \$ \$ 328,732.30 \$ 161,400.80 \$ \$ \$ 247,227.28 \$ 210,984.26 \$ \$ 369,201.47 \$ 193,537.49 \$ \$ 277,305.19 \$ 131,964.50 \$ \$ \$ 250,884.35 \$ 15,850.19 \$ \$ \$ 250,884.35 \$ 15,850.19 \$ \$ \$ 267,135.51 \$ 215,095.72 \$ \$ \$ \$ 267,135.51 \$ 215,095.72 \$ \$ \$ \$ 267,135.51 \$ 215,095.72 \$ \$ \$ \$ 267,135.51 \$ 215,095.72 \$ \$ \$ \$ 267,135.51 \$ \$ 215,095.72 \$ \$ \$ \$ 267,135.51 \$ \$ 215,095.72 \$ \$ \$ \$ \$ 267,135.51 \$ \$ 215,095.72 \$ \$ \$ \$ \$ \$ 661,719.41 \$ \$ 623,199.90 \$ \$ \$ \$ \$ \$ \$ 661,719.41 \$ \$ 623,199.90 \$ \$ \$ \$ \$ \$ \$ \$ 661,719.41 \$ \$ 623,199.90 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,938,751.53 \$ 239,290.72 \$ 150,680.81 \$ 145,900.93 \$ 30,950,858.73 \$ 1,956,752.08 \$ 36,951,520.85 \$ 1,102,084.89 \$ 919,935.04 \$ 75,550.52 \$ 1,068,747.45 \$ 92,232.22 \$ 594,919.49 \$ (5,539.74) \$ 556,416.85 \$ 10,691.12 \$ 627,353.28 \$ 12,774.13 \$ 700,703.58 \$ 76,679.56 \$  6,564,832.65 \$ (4,387,597.99) \$ 273,748.07 \$ 15,266.82 \$ 449,006.71 \$ 112,021.76 \$  600,751.96 \$ 64,322.94 \$ 393,269.32 \$ 75,451.37 \$ 379,817.83 \$ 52,480.74 \$ 647,314.01 \$ 108,493.89 \$ 113,540.27 \$ 7,443.84 \$ 708,599.51 \$ 47,320.84 \$	765,369.68 \$ (170,332.65) \$ (6,795,543.51) \$ (13,226,418.17) \$ (663,763.25) \$ (281,161.37) \$ (84,203.62) \$ (270,553.61) \$ 21,931.64 \$ (51,749.35) \$ 428,512.09 \$ (358,040.56) \$ 158,042.57 \$ (457,212.56) \$ (234,709.35) \$ (271,044.74) \$ (154,341.56) \$ (103,938.99) \$	1,261.43 \$ - Yes  133,357.83 \$ - No  128,733.20 \$ - No  126,991.42 \$ - No  - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Accelerated from 2014 to 2013 to offset delays on other projects.  Delayed from 2012 to 2013 due to clearance constraints and difficulty in obtaining required permits.  Delayed from 2012 to 2013 due to clearance resource constraints.  Delayed from 2012 to 2013 due to difficulties in obtaining permits from the City of Sunnyvale for electrical service connections.  Delayed from 2012 to 2013 due to clearance constraints and construction complexities.  Accelerated from 2014 to 2013 to offset delays on other projects.  Delayed from 2012 to 2013 in order to coordinate with clearance for replacement project on the same Line, L-109. Delayed from 2012 to 2013 due to clearance constraints

PSEP Filing Line # PSRS New PSRS Order Number Project Description	Construction	Mobilization Date Tie-in Date Jo	ob Estimate Amount Total Cost	Labor Cost Materials Cost	Contracts Cost Other Cost V	2000	>10% 0	ver
Line # PSRS New PSRS Order Number Project Description  V-063 Valve Auto - Valero Refinery Tap,  37 23674 23674 30842322 3V, Ph. 1	City Contractor  Benicla ARB	19-Aug-13 14-Oct-13 \$	1,880,271.00 \$ 1,054,097.93	\$ 240,605:11 \$ 220,514.45		eriance to Budget PSEP Disalle (826,173.07) \$	wed Cost Non-PSEP costs Budgi - \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.
38 23631 23631 30842326 V-040 Valve Auto - Walnut Ave, 1V, Ph. 1 V-071 Valve Auto - West Lane & 39 23658 23658 30842327 Hammertown, 3V, Ph. 1	Walnut Creek ARB Stockton Snelson	3-Jun-13 11-Oct-13 \$	1,653,709.00 \$ 1,566,714.21 \$ 1,599,418.00 \$ 1,301,422.85 \$			(86,994.79) \$ (297,995.15) \$	- \$ - No	Accelerated from 2014 to 2013 to offset delays on other projects.
V-050 Valve Auto - Winton Avenue, 1V, 40 23647 23647 30842329 Ph. 1	Hayward GT/GC	21-Mar-13 11-Jul-13 \$	934,217.00 \$ 990,926.47	\$ 346,310.26 \$ 124,215.91	\$ 432,022.22 \$ 88,378.08 \$	56,709.47 \$	- \$ - No	projects.
V-016 Valve Auto - Crystal Springs, 4V, 41 23603 23603 30843884 Ph. 1	Hillsborough Underground	22-Jul-13 5-Dec-13 \$	4,392,392.00 \$ 4,355,013.51	\$ 412,843.40 \$ 1,292,148.79	\$ 4,836,880.29 \$ (2,186,858.97) \$	(37,378.49) \$	- \$ - No	
R-007 L-108_1A REPL 2.19MI MP 37.14- 42 24077 27594 30843913 38.17 PH1	Stockton Snelson	23-Oct-13 20-Dec-13 \$	12,691,746.00 \$ 8,107,777.91	\$ 705,932.44 \$ 1,478,383.19	\$ 5,110,870.00 \$ 812,776.77 \$	(4,583,968.09) \$	184.49 \$ - No	Accelerated from 2014 to 2013 to incorporate adjacent segments identified as high priority upon completion of data validation. Job Estimate (JE) in progress.
H-003 L-300B MP 299-351.8 UPGRADE PH- 43 24017 24017 30846924 1	Fresno GT/GC	14-Feb-13 25-Oct-13 \$	11,916,445.00 \$ 12,665,527.73	\$ 4,805,285.95 \$ 3,492,364.11	\$ 2,921,735.15 \$ 1,446,142.52 \$	749,082.73 \$	- \$ - No	
44 24023 24023 30846926 I-005 L-300A MP 299-352 UPGRADE PH-1	Fresno GT/GC	25-Mar-13 27-Jul-13 \$	12,223,488.00 \$ 12,444,856.38	\$ 3,926,225.65 \$ 2,766,102.95	\$ 4,436,665.77 \$ 1,315,862.01 \$	221,368.38 \$	- \$ - No	Delayed from 2012 to 2013 to coordinate with Crystal
I-006 L-132 MP 31.96-38.39 UPGRADE PH- 45 24025 24025 30846928 1	Hillsborough Underground	30-Sep-13 13-Dec-13 \$	2,750,138.00 \$ 5,123,302.10 \$	\$ 530,605.26 \$ 460,598.48	\$ 2,379,414.61 \$ 1,752,683.75 \$	2,373,164.10 \$	- \$ - Yes	Springs Valve Auto project which was rescheduled due to
R-029 L-109 REPL 0.71MI MP 9.27-9.87								This portion of the original project was tied-in in 2012 with another 149 feet to be completed in 2013 because a school could not take the outage required for clearance in 2012; however, it has now been delayed until 2014 to coincide with other work on the line so that portion has been split to a separate project (PSRS 30791) and this portion is now being reported for completeness despite the 2012 tie-in data. Bit the solitors that 2012 or to the solitors that the solitors are the 2012 tie-in data.
46 23365 23366 30847128 Spread 6A V-030 Valve Auto - Antioch Terminal, 5V,	Mountain View Snelson	20-Jul-12 20-Dec-13 \$	11,097,878.39 \$ 13,297,348.77	· · · · · · · · · · · · · · · · · · ·	\$ 10,369,467.15 \$ 1,494,805.62 \$	2,199,470.38 \$	7,088.93 \$ - Yes	date. Risks realized on the 2012 portion of this project were reported in Q1-13 Table 19-1.
47     24281     30014     30847360     Ph. 1       48     24288     24288     30847365     V-038 Valve Auto - San Pablo, 3V, Ph. 1       V-032 Valve Auto - SP3-Line 191 Mtr Sta,       49     24284     24284     30847366     4V, Ph 1	Antioch         ARB           San Pablo         GT/GC           Pittsburg         GT/GC	22-Jul-13 19-Dec-13 \$ 12-Mar-13 18-Apr-13 \$ 22-Jan-13 19-Mar-13 \$	2,874,570.00 \$ 4,442,412.10 9 1,103,042.00 \$ 541,632.18 9 431,090.00 \$ 303,317.04 9	\$ 1,021,707.53 \$ 730,898.40 \$ 180,621.40 \$ 167,589.21 \$ 107,506.82 \$ 71,529.14		1,567,842.10 \$ (561,409.82) \$ (127,772.96) \$	- \$ - Yes - \$ - No	
R-124 DFM-1306-06 REPL 0.01MI MP 0.00- 50 24889 24889 30865359 0.01 PH1	Sonoma GT/GC	30-Jul-13 16-Aug-13 \$	415,359.00 \$ 335,726.48 \$			(79,632.52) \$	208,254.70 \$ - No	
R-110 DFM-3008-01 REPL 0.05MI MP 7.99- 51 24895 24895 30865385 8.02 PH1 R-133 L-167 REPL 4.75MI MP 29.77-34.53	Walnut Creek ARB	3-Jun-13 11-Oct-13 \$	1,136,873.00 \$ 206,769.87	\$ 34,259.68 \$ -	\$ 6,209.79 \$ 404,897.67 \$	(930,103.13) \$	238,597.27 \$ - No	Project completed in conjunction with and included in Job Estimate (JE) for Valve Auto project Walnut Ave (PSRS 23631).
52 23845 27960 30894011 PH1 R-051 L-210A REPL 1.27MI MP 24.14- 53 23698 26843 30915264 25.41 PH1	Yuba City GC/Barnard Napa GT/GC	8-Apr-13 24-Jul-13 \$ 28-May-13 27-Aug-13 \$	7,088,981.00 \$ 5,322,351.34 \$		\$ 14,444,622.71 \$ 1,632,851.62 \$ \$ 1,257,335.14 \$ 1,552,694.97 \$	(4,803,294.08) \$ (1,766,629.66) \$	- \$ - No	Delayed from 2012 to 2013 in order to minimize revenue impacts to land owners.  Valve Automation site selected at California Ave. (1 of 2) will be automated instead of Antioch Town Meter Station
54 27532 27532 30930252 V-031A Valve Auto - California, 1V, Ph. 1 R-131 L-119B-1 REPL 0.03MI MP 0.00- 55 24902 27712 30935230 0.03 PH1	Pittsburg ARB Sacramento GT/GC	7-Aug-13 14-Nov-13 \$ 8-May-13 14-Jun-13 \$	2,018,640.00 \$ 1,172,907.37 \$ 1,325,977.00 \$ 1,321,891.60 \$	\$ 190,047.57 \$ 457,556.77 \$ 736,983.27 \$ 161,422.53		(845,732.63) \$ (4,085.40) \$	- \$ - No - \$ - No	for constructability and cost reasons.  Delayed from 2012 to 2013 for efficiency reasons to coordinate work with L-119B Tests planned in 2013.
R-139 L-131Y REPL 0.01MI MP 0.53-0.54 56 24903 24903 30939632 PH1	Brannan Isld Park GT/GC	25-Apr-13 10-May-13 \$	597,584.00 \$ 564,345.69 ;	\$ 349,921.68 \$ 18,089.52	\$ 124,631.66 \$ 71,702.83 \$	(33,238.31) \$	- \$ - No	Delayed from 2012 to 2013 to allow more time for engineering after a portion of the line was deactivated.
R-132 DFM-7222-01 REPL 10.23MI MP 57 23470 27890 30940034 0.99-11.16 PH1	Turlock Snelson	12-Jul-13 16-Nov-13 \$	43,732,738.00 \$ 31,680,536.89 \$		\$ 30,157,975.40 \$ (1,848,999.23) \$	(12,052,201.11) \$	13,352.59 \$ - No	Added as new replacement project from filed test project (PSRS 28511) and accelerated from 2014 to 2013 due to a necessary diameter increase on the line for a capacity
V-039A Valve Auto - Clayton Reg Station,								Valve Automation site selected at Clayton Regulator Station instead of Crystal Ranch for constructability and cost reasons. Delayed from 2012 to 2013 to allow time for
58 27893 27893 30941517 1V, Ph. 1	Concord GT/GC	3-jun-13 15-Aug-13 \$	1,956,148.00 \$ 1,530,922.47	\$ 388,506.10 \$ 201,000.59	\$ 818,138.07 \$ 123,277.71 \$	(425,225.53) \$	- \$ - No	engineering and planning at this new location.  Delayed from 2012 to 2013 due to complicated installation
R-134 L-114_2 REPL 3.59MI MP 12.68- 59 23688 27979 30943472 16.54 PH1 R-069 L-050A Transfer 5.09MI MP 2.55-	Brentwood GT/GC	14-Jan-13 19-Oct-13 \$	25,480,174.37 \$ 25,571,711.20	\$ 5,165,114.41 \$ 4,531,428.72	\$ 11,377,821.41 \$ 4,499,339.13 \$	91,536.83 \$	1,992.47 \$ - No	methods which require an additional easement and to
60 23790 25790 30943473 7.60 PH1	Yuba City GT/GC	19-Jul-13 1-Nov-13 \$	8,300,905.00 \$ 2,258,885.15	\$ 1,163,199.47 \$ 97,144.71	\$ 608,178.69 \$ 390,362.28 \$	(6,042,019.85) \$	- \$ - No	
R-140 L-118A Transfer 6.15MI MP 0.00- 61 23743 28091 30947578 5.62 PH1	Fresno GT/GC	N/A 5-Oct-13 \$	622,594.00 \$ 3,908.04	\$ - \$ 47,770.80	\$ 114,766.53 \$ (158,629.29) \$	(618,685.96) \$	- \$ - No	which run parallel. Both of these lines are being transferred to distribution where they connect to the new
V-083 Valve Auto - Helm Tap Station, 1V, 62 N/A 29461 30969689 Ph. 1	Fresno GT/GC	21-May-13 22-Aug-13 \$	499,535.00 \$ 448,209.89 :	\$ 175,653.42 \$ 95,096.69	\$ 143,229.25 \$ 34,230.53 \$	(51,325.11) \$	- \$ - No	New Valve Automation project combined with ILI project to increase cost effectiveness and support standardization.
V-084 Valve Auto - West Ford Ave, 1V, 63 N/A 29463 30969692 Ph. 1	Fresno GT/GC	14-Jun-13 29-Aug-13 \$	702,289.00 \$ 424,160.87	\$ 187,036.88 \$ 84,136.35	\$ 111,848.99 \$ 41,138.65 \$	(278,128.13) \$	- \$ - No	New Valve Automation project combined with ILI project to increase cost effectiveness and support standardization.
V-087 Valve Auto - L-138 Adams Elm Mtr 64 N/A 29637 30976004 Reg5tn, 1V, Ph. 1 TIM-042-12, Line L-057A-MD1, McDonald 65 24183 25897 41482931 Island	Fresno Snelson  McDonald Island ARB	17-Jun-13 30-Aug-13 \$	694,886.00 \$ 535,066.08 \$ 1,938,702.00 \$ 1,451,954.96	\$ 152,075.14 \$ 84,202.95 \$ 542,076.14 \$ 66,448.96	Common Co	(159,819.92) \$ (486,747.04) \$	- \$ - No	Delayed from 2012 to 2013 to aid in balancing the use of
66 23511 25860 41600040 TIM-022C-12, Line L-191-1, Walnut Creek	Walnut Creek ARB	3-Jun-13 26-Jul-13 \$	4,650,684.00 \$ 3,618,341.80 \$	\$ 1,310,553.53 \$ 36,685.14	\$ 2,829,500.64 \$ 403,440.18 \$	(1,032,342.20) \$	800,446.16 \$ - No	Delayed from 2012 to 2013 to accommodate other higher priority tests for Integrity Management in 2012. JE includes TIM-022C-12 and TIM-022D-12- split occurred post estimate. TIM-022B-12 is ~61% of original length.

PSEP Filling	Construction Contractor Mobilization Date Tie-in Date Job Estimate Amount Total Co		>10% Over Budget Comments
Line # PSRS New PSRS Order Number Project Description City	Contractor Mobilization Date Tie-in Date Job Estimate Amount Total Co	ost Labor Cost Materials Cost Contracts Cost Other Cost Variance to Budget PSEP Disallowed Cost Non-PSEP costs	Delayed from 2012 to 2013 to accommodate other higher priority tests for Integrity Management in 2012. JE includes
67 23511 25860 41600040 TIM-022D-12, Line L-191-1, Walnut Creek Walnut Creek	eek ARB 3-Jun-13 26-Jul-13 See TIM-022C-12 See TIM-022C	2C-12 See TIM-022C-12	TIM-022C-12 and TIM-022D-12- split occurred post  No estimate. TIM-022B-12 is ~61% of original length.
			Delayed from 2012 to 2013 to accommodate other higher priority tests for Integrity Management in 2012. JE includes TIM-022C-12 and TIM-022D-12- split occurred post
68 23511 25860 41600040 TIM-022B-12, Line L-191-1, Walnut Creek Walnut Creek 69 23511 25861 41600041 T-023-12, Line L-191-1, Martinez Martinez		2C-12 See TIM-022C-12 See TIM-	
70 23856 25891 41600049 T-039A-12, Line DFM-1615-01, Modesto Modesto TIM-043-12, Line I-057A-MD1, McDonald		118.96 \$ 323,554.26 \$ 22,013.54 \$ 2,276,600.17 \$ 65,950.99 \$ (16,414.04) \$ 2,286.29 \$ -	Delayed from 2012 to 2013 to accommodate other higher No priority tests for Integrity Management in 2012.  Delayed from 2012 to 2013 to aid in balancing the use of
71         24183         25896         41600051         Island         McDenald Isl           72         23510         25902         41600053         T-046-12, Line L-138, Fresno         Fresno			No GC resources.  Delayed from 2012 to 2013 to minimize customer impact during clearance.  Delayed from 2012 to 2013 to accommodate other higher.
73 23493 25820 41600057 T-051A-12, Line L-142N, Bakersfield Bakersfield  74 23493 25820 41600057 T-051B-12, Line L-142N, Bakersfield Bakersfield			
75 23493 25820 41600057 T-051C-12, Line L-142N, Bakersfield Bakersfield			Delayed from 2012 to 2013 to accommodate other higher Yes priority tests for Integrity Management in 2012. Delayed from 2012 to 2013 to accommodate other higher
76 23493 25820 41600057 T-051D-12, Line L-142N, Bakersfield Bakersfield 77 23493 25820 41600057 T-051E-12; Line L-142N, Bakersfield Bakersfield			Yes priority tests for Integrity Management in 2012.  Delayed from 2012 to 2013 to accommodate other higher  Yes priority tests for Integrity Management in 2012.
78 23554 25866 41600069 T-082-12, Line L-119B, Sacramento Sacrament	sto SE Pipe Line 28-Mar-13 27-Apr-13 \$ 1,430,196.00 \$ 1,157,5	999.08 \$ 381,124.52 \$ 14,421.13 \$ 702,566.62 \$ 59,886.81 \$ (272,196.92) \$ - \$ -	Delayed from 2012 to 2013 to accommodate other higher  No priority tests for Integrity Management in 2012.
79 23874 25841 41613030 T-015-12, Line L-131_2, Oakley Oakley		673.44 \$ 282,967.38 \$ 14,959.08 \$ 980,831.88 \$ (386,084.90) \$ (1,098,735.56) \$ - \$ -	Delayed from 2012 to 2013 to accommodate other higher  No priority tests for Integrity Management (IM) in 2012.  Delayed from 2012 to 2013 to accommodate other higher
80 24188 25870 41617917 T-028-12, Line DFM-2403-12, Fremont Fremont 81 23856 25889 41617922 T-038-12, Line DFM-1615-01, Modesto Modesto			
82 23533 25833 41617931 TIM-065-12, Line L-021C, Penngrove Penngrove 83 23554 25864 41617941 T-081-12, Line L-119B, North Highlands North Highla			Delayed from 2012 to 2013 to accommodate other higher priority tests for Integrity Management in 2012.  Delayed from 2012 to 2013 to accommodate other higher priority tests for Integrity Management in 2012.
84 24216 25884 41617946 T-093-12, Line L-210C, Vallejo Vallejo			Delayed from 2012 to 2013 because large customer could Yes not take an outage in 2012. Delayed from 2012 to 2013 to coordinate with the
85 23905 25904 41622643 T-101-12, Line DFM-3010-01, Antioch Antioch	n ARB 21-Jan-13 4-Feb-13 \$ 1,664,377.00 \$ 1,137,5	999.91 \$ 330,943.15 \$ 5,569.79 \$ 786,573.49 \$ 14,913.48 \$ (526,377.09) \$ 1,065,918.54 \$ -	
86 23690 27760 41710903 T-285-13, Line X6526, Kettleman City Kettleman C 87 23872 27648 41743424 TIM-267-13, Line DFM-1813-02, Marina Marina			No with other work in the vicinity.
88 23872 27649 41743426 T-269A-13, Line DFM-1813-02, Monterey Seaside			No JE includes T-269B-13. T-269A-13 is ~37% of original length.
89     23872     27649     41743426     T-269B-13, Line DFM-1813-02, Monterey     Monterey       90     23472     27651     41743428     T-272A-13, Line DFM-7223-01, Turlock     Turlock       91     23472     27651     41743428     T-272B-13, Line DFM-7223-01, Turlock     Turlock	: Snelson 12-Aug-13 24-Oct-13 \$ 2,519,543.00 \$ 3,473,6	653.29 \$ 458,598.35 \$ 41,833.25 \$ 2,881,419.73 \$ 91,801.96 \$ 954,110.29 \$ - \$ -	No JE includes T-269B-13. T-269A-13 is ~37% of original length. Yes Yes
92 23478 27652 41743429 TIM-273-13, Line DFM-7226-01, Modesto Modesto 93 23570 27603 41744015 T-217-13, Line DFM-0215-01, Belmont Belmont 94 23532 27604 41744017 T-218-13, Line L-021B, Napa Napa		366.61 \$ 288,556.64 \$ 15,079.05 \$ 1,555,705.76 \$ 91,025.16 \$ (276,540.39) \$ 1,823,308.09 \$ -	No No No
95 23532 27606 41744017 1-216-13, Line L-021B, Petaluma Petaluma 96 24212 27608 41744221 T-220-13, Line L-021B, Petaluma Petaluma 96 24212 27608 41744226 T-223A-13, Line L-050A-1, Marysville Marysville	a ARB 19-Jun-13 26-Jul-13 \$ 2,139,092.00 \$ 1,828,4	436.53 \$ 507,096.32 \$ 18,003.83 \$ 1,157,949.44 \$ 145,386.94 \$ (310,655.47) \$ 1,382.02 \$ -	
97 23565 27609 41744230 T-224A-13, Line DFM-0604-01, Vacaville Vacaville  98 23569 27611 41744232 T-225A-13, Line DFM-0604-07, Vacaville Vacaville			No No
99 23569 27611 41744232 T-2258-13, Line DFM-0604-07, Vacaville Vacaville 100 23876 27613 41744236 T-226-13, Line DFM-0817-01, San Jose San Jose			No. No
101         23872         27632         41744767         T-268-13, Line DFM-1813-02, Seaside         Seaside           102         23550         27614         41748703         T-228-13, Line L-118B, Madera         Madera		964.38 \$ 268,224.57 \$ 14,464.68 \$ 1,077,455.37 \$ 27,819.76 \$ (788,002.62) \$ 6,840.12 \$ -316.77 \$ 499,493.17 \$ 42,925.00 \$ 2,806,968.53 \$ 165,930.07 \$ 1,310,125.77 \$ 62,251.82 \$ -	Yes  JE includes both T-229A-13 and T-229C-13 because split
103 23550 27615 41748704 T-229A-13, Line L-118B, Madera Madera	n Snelson 17-May-13 21-Jun-13 \$ 2,541,348.00 \$ 2,357,0	067.80 \$ 528,355.00 \$ (15,197.38) \$ 1,812,122.52 \$ 31,787.66 \$ (184,280.20) \$ 2,350,087.24 \$ -	occurred post estimate. T-229A-13 is ~11% of original  No length and T-229C-13 ties in in Q3.  JE includes both T-229A-13 and T-229C-13 because split occurred post estimate. T-229A-13 is ~11% of original
104     23550     27615     41748704     T-229C-13, Line L-118B, Madera     Madera       105     23550     27617     41748705     T-230-13, Line L-118B, Madera     Madera       106     23499     27621     41748974     T-239-13, Line L-162A, Tracy     Tracy	snelson 26-Jul-13 12-Oct-13 \$ 2,697,204.00 \$ 2,796,6	693.75 \$ 311,421.98 \$ 55,013.84 \$ 2,223,008.53 \$ 207,249.40 \$ 99,489.75 \$ 1,587,353.71 \$ -	No length and T-229C-13 ties in in Q3.
106 23499 27621 41748974 1-239-13, Line L-102A, Haty Haty 107 23499 27622 41748975 T-240-13, Line L-162A, Tracy Tracy 108 23506 27623 41748976 T-241-13, Line L-177B, Chico Chico 109 23524 28395 41756005 T-206-13, Line L-187, King City King City	Snelson         7-Jun-13         15-Jul-13         \$         2,080,533.00         \$         1,172,5           Barnard         30-May-13         5-Sep-13         \$         3,119,267.00         \$         3,506,7	545.62 \$ 146,547.36 \$ 5,445.97 \$ 967,764.03 \$ 52,788.26 \$ (907,987.38) \$ 1,076.22 \$ -773.15 \$ 688,696.74 \$ 159,171.74 \$ 2,497,055.68 \$ 161,848.99 \$ 387,506.15 \$ 139.62 \$ -	
109 23524 28407 41756006 T-207-13, Line L-187, Greenfield Greenfield			No JE includes T-208A-13, T-208B-13 and T-208C-13 because
111 23524 28408 41756007 T-208A-13, Line L-187, Soledad Soledad	1 Underground 22-May-13 28-Jun-13 \$ 3,536,097.00 \$ 3,219,6	604.31 \$ 525,491.88 \$ 81,829.46 \$ 2,570,612.69 \$ 41,670.28 \$ (316,492.69) \$ 208,914.49 \$ -	split occurred post estimate. T-208A-13 is ~29% of original
112 23524 28408 41756007 T-208B-13, Line L-187, Soledad Soledad	d Underground 22-May-13 26-Jul-13 See T-208A-13 See T-208A-	13 See T-208A-13	JE includes T-208A-13, T-208B-13 and T-208C-13 because split occurred post estimate. T-208A-13 is ~29% of original No length and T-208B-13, T-208C-13 tie-in in Q3.

## TABLE 11-1 PACIFIC GAS AND ELECTRIC COMPANY PROJECT STATUS SUMMARY - PROJECTS COMPLETED JANUARY 1, 2013 – DECEMBER 31, 2013

	PSEP Filing	New PSPS	Order Numbe	r Project Description	City	Construction Contractor	Mobilization Date	Tie-in Date Jol	h Estimate Amount	Total Cost	Labor Cost A	Materials Cost	Contracts Cost	Other Cost Va	iance to Rudget P	SEP Disallowed Cost No	>10% O	
		THE WITSON		r Project oescription		COMPACIO	I DUNIZATOR C	HE-III DATE 70.					ConfigAts Con	Dujer Cost 74		ior Disallowed Cost Ro		JE includes T-208A-13, T-208B-13 and T-208C-13 because split occurred post estimate. T-208A-13 is ~29% of original
113 114	23524 23524	28408 28409	41756007 41756008	T-208C-13, Line L-187, Soiedad T-209-13, Line L-187, Soledad	Soledad Soledad	Underground Underground	22-May-13 20-Jun-13	9-Aug-13 See T- 17-Aug-13 \$	-208A-13 See 2,264,813.00 \$		e T-208A-13 See	e T-208A-13 S 24,900.59 S		e T-208A-13 See T 45,440.94 \$	-208A-13 See 3 (1,021,828.29) \$	-208A-13 See T-	208A-13 No	length and T-208B-13, T-208C-13 tie-in in Q3.
115	23524	28410	41756009	T-210-13, Line E-187, Gonzales	Gonzales	Underground	10-Jul-13	30-Aug-13 \$	2,029,602.00 \$		237,341.12 \$	29,587.71 \$	915,352.79 \$	14,395.72 \$	(832,924.66) \$	17,158.88 \$	- No	
116 117	23542 23542	28411 28411	41756012 41756012	T-211A-13, Line L-187, Chualar T-211B-13, Line L-187, Chualar	Chualar Chualar	Underground	15-Aug-13	20-Sep-13 \$ 10-Oct-13 See T-	3,027,083.00 \$	THE RESIDENCE OF THE PROPERTY	400,570.13 \$ e T-211A-13 See	72,209.41 \$ e T-211A-13 S		69,457.77 \$ e T-211A-13 See T	(441,421.29) \$ -211A-13 See	652.18 \$ -211A-13 See T-	- No 211A-13 No	
TLI	23542	20411	41756012	1-211B-13, Line L-187, Citudial	Ciludidi	Underground	15-Aug-13	10-001-13 See 1-	-Z11A-13 3EI	e 1-211A-13 Se	e 1-211A-13 See	e 1-211A-13 3	ee 1-211A-13 36	e 1-211A-13 See 1	-211A-13 5ee	-ZIIA-13 See 1-	211A-15 NO	JE INCludes 1-2110-13 Journa III Japie 12-1.
118	23560	23560	41756013	T-310-14, Line DFM-0141-01, Crockett	Crockett	ARB	6-May-13	19-May-13 \$	1,620,636.00 \$	818,575.71 \$	223,432.99 \$	17,155.96 \$	554,823.53 \$	23,163.23 \$	(802,060.29) \$	180,067.50 \$	- No	
																		Delayed from 2011 to 2013 and split from T-038-11 (PSRS 24530) to coordinate this pipeline section within Martin
119	N/A	28473	41801221	T-038B-11, Line t-132, Daly City	Daly City	Snelson	N/A	25-Feb-13 \$	331,131.00 \$	320,125.07 \$	36,610.26 \$	- s	275,365.96 \$	8,148.85 \$	(11,005.93) \$	320,125.07 \$	- No	Station within that station rebuild project.
120	23748	28495	41801222	T-281B-13, Line L-191, Antioch	Antioch	ARB	27-Aug-13	1-Oct-13 \$	2.647.577.00 \$	2,115,281.21 \$	371,446.61 \$	57.160.73 \$	1,533,265.42 \$	153,408.45 \$	(532,295.79) \$	- \$	- No	Added new test project from filed replacement project as a result of data validation.
121	23892	29093	41802284	T-227-13, Line DFM-1023-01, Redding	Redding	Barnard	12-Jul-13	16-Aug-13 \$		1,655,983.62 \$	287,714.21 \$	14,825.27 \$		45,356.24 \$	(573,937.38) \$	172,209.61 \$	- No	
122	23911	31386	41858968	T-331A-14, Line DFM-1501-01, Yuba City	Yuba City	ARB	13-May-13	24-Jul-13 \$	3.033.154.00 \$	5,989,808.98 \$	941,108.53 \$	102 316 39 \$	4,799,257.44 \$	147,126.62 \$	2,956,654.98 \$	287,733.34 \$	- Yes	Accelerated from 2014 to 2013 to offset delays on other projects. JE includes T-331B-14 also.
																	1000	Accelerated from 2014 to 2013 to offset delays on other
123	23911	31386	41858968	T-331B-14, Line DFM-1501-01, Yuba City	Yuba City	ARB	13-May-13	30-Oct-13 See T-	-331A-14 See	e T-331A-14 Se	e T-331A-14 See	e T-331A-14 S	ee T-331A-14 Se	e T-331A-14 See T	-331A-14 See	-331A-14 See T-	331A-14 Yes	projects. JE includes T-331B-14 also. Accelerated from 2014 to 2013 to offset delays on other
124	23483	23483	41859176	T-360-14, Line DFM-7226-13, Modesto	Modesto	Snelson	29-Apr-13	8-Jun-13 \$	1,972,730.00 \$	1,305,677.37 \$	203,319.42 \$	7,188.63 \$	1,069,742.87 \$	25,426.45 \$	(667,052.63) \$	976.72 \$	- No	projects.
125	23567	23567	41859416	T-318A-14, Line DFM-0604-06, Vacaville	Vacaville	ARB	8-Aug-13	9-Oct-13 \$	3,479,729.00 \$	2 700 791 53 - \$	499,403.74 \$	61.039.97 \$	1,971,471.29 \$	168,876.53 \$	(778,937.47) \$	1,005,577.81 \$	- No	Accelerated from 2014 to 2013 to offset delays on other projects.
					vacavine		8-Aug-13			2,700,731.33 3	495,403.74 3	01,039.57 3						Accelerated from 2014 to 2013 to offset delays on other
126	23567	23567	41859416	T-318B-14, Line DFM-0604-06, Vacaville	Vacaville	ARB	8-Aug-13	30-Oct-13 See T-	-318A-14 See	e T-318A-14 Se	e T-318A-14 See	e T-318A-14 S	ee T-318A-14 Se	e T-318A-14 See T	-318A-14 See 7	-318A-14 See T-	318A-14 No	projects.  Delayed from 2012 to 2013 due to permitting delays with
127	N/A	30025	41867295	T-013C-12, Line L-109, Daly City	Daly City	ARB	26-Jul-13	12-Sep-13 \$	2,575,831.00 \$	4,027,231.81 \$	526,697.67 \$	76,533.25 \$	3,300,504.26 \$	123,496.63 \$	1,451,400.81 \$	4,027,231.81 \$	- Yes	Caltrans.
																		Added as a new test, some segments from replacement and some new to PSEP - initially proposed replacement
				T-282A-13, Line L-172A, West														project could not be completed due to site conditions
128	23926	30056	41867640	Sacramento	West Sacramento	Barnard	23-Aug-13	25-Oct-13 \$	3,807,986.00 \$	3,453,008.46 \$	555,692.69 \$	24,555.55 \$	2,730,207.35 \$	142,552.87 \$	(354,977.54) \$	3,442,933.56 \$	- No	limiting constructability.  Added as a new test, some segments from replacement
																		and some new to PSEP - initially proposed replacement
400	22026	20055	41867640	T-282B-13, Line L-172A-1, West		200	22.4 - 42	35 0 ± 43	2024.42	- T 2024 42 C	- T 2024 42 - C-	T 2024 12 6	- T 2021 43	T 2024 12 E T	-282A-13 See 1	-282A-13 See T-	2024.42	project could not be completed due to site conditions
129	23926	30056	41867640	Sacramento	West Sacramento	Barnard	23-Aug-13	25-Oct-13 See T-	-282A-13 5e(	e T-282A-13 Se	e T-282A-13 See	e T-282A-13 S	ee 1-282A-13 Se	e T-282A-13 See T	-282A-13 See	-282A-13 266 I-	282A-13 No	limiting constructability.
		20000		T2 007 10 11 001/2T2011 7 1 1 1			471.45	471145	50 205 00 A	WD 242 25 A	10.550.05			F00.07 A	40.04707 4	70.040.05 4		Added new test from filed replacement project and
130	N/A	30220	41877582	TS-003-13, Line GCUST5814, Palo Alto	Palo Alto	ARB	17-Jun-13	17-Jul-13 \$	59,396.00 \$	72,313.35 \$	42,550.85 \$	1,840.35 \$	27,338.78 \$	583.37 \$	12,917.35 \$	72,313.35 \$	- Yes	accelerated from 2014 to 2013 for constructability reasons.
131	23769	30531	41899453	T-284-13, Line DFM-1815-02, Monterey	Monterey	Underground	16-Sep-13	31-Oct-13 \$	2,054,520.00 \$	1,282,685.69 \$	183,597.64 \$	14,430.51 \$	1,054,497.65 \$	30,159.89 \$	(771,834.31) \$	1,282,685.69 \$	- No	Accelerated to support system needs.
132	23521	31108	41916188	T-303B-14, Line L-186, Dos Palos	Dos Palos	Underground	10-Sep-13	23-Nov-13 \$	3,498,921.00 \$	4,031,042.96 \$	735,088.50 \$	58,129.46 \$	3,095,059.72 \$	142,765.28 \$	532,121.96 \$	73,706.49 \$	- Yes	Accelerated from 2014 to 2013 to offset delays on other projects.
						and the second s				NAME OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.								Accelerated from 2014 to 2013 to offset delays on other
133	23521	31109	41916192	T-304-14, Line L-186, Dos Palos	Dos Palos	Underground	10-Sep-13	8-Dec-13 \$	2,973,163.00 \$	2,594,837.90 \$	430,712.28 \$	59,188.45 \$	2,002,059.81 \$	102,877.36 \$	(378,325.10) \$	- Ş	- No	projects.  Accelerated from 2014 to 2013 to offset delays on other
134	24219	29707	41918261	T-355-14, Line L-300B, Kern	Bakersfield	Snelson	7-Oct-13	30-Oct-13 \$	3,071,278.00 \$	1,799,285.42 \$	122,750.40 \$	63,008.59 \$	1,528,210.10 \$	85,316.33 \$	(1,271,992.58) \$	127,203.89 \$	- No	projects.
135	23733	31372	41931283	T-337-14, Line DFM-1603-03, Manteca	Manteca	GT/GC	23-Sep-13	22-Oct-13 \$	1,705,098.00 \$	605,864.33 \$	275,700.72 \$	13,504.16 \$	265,189.55 \$	51,469.90 \$	(1,099,233.67) \$	575,889.75 \$	- No	Added test from filed replacement project as a result of data validation.
			**************************************	T-288A-13, Line L-300B, Bear Valley														Accelerated from 2014 to 2013 to offset delays on other
136	31511	31511	41942319	Springs T-288B-13, Line L-300B, Bear Valley	Bear Valley Springs	Snelson	7-Oct-13	19-Nov-13 \$	3,566,812.00 \$	2,663,442.81 \$	140,030.24 \$	86,329.88 \$	2,219,226.42 \$	217,856.27 \$	(903,369.19) \$	- Ş	- No	projects.  Accelerated from 2014 to 2013 to offset delays on other
137	31511	31511	41942319	Springs	Bear Valley Springs	Snelson	7-Oct-13	19-Nov-13 See T-	-288A-13 See	e T-288A-13 Se	e T-288A-13 See	e T-288A-13 S	ee T-288A-13 Se	e T-288A-13 See T	-288A-13 See 1	-288A-13 See T-	288A-13 No	
138	23623	23623	97000504	V-034 Valve Auto - Concord Meter Station, 1V, Ph. 1	Concord	GT/GC	29-Jul-13	12-Sep-13 \$	1,438,881.00 \$	897,189.71 Ś	310,858.90 \$	126,206.60 \$	252,752.36 \$	207,371.85 \$	(541,691.29) \$	- \$	897,189.71 No	
				27/11/2				and the same of th					and the second second second second				The second secon	Pending cost reallocation (\$300,000 to StanPac order
139	23624	23624	97000505	V-035 Valve Auto - Vine Hill, 1V, Ph. 1	Martinez	ARB	19-Mar-13	2-Jul-13 \$	1,539,371.00 \$	1,955,765.65	589,262.04 \$	165,336.02 \$	1,044,083.42 \$	157,084.17 \$	416,394.65 \$	5	1,955,765.65 Yes	97001801). Once complete, this project will not have a >10% variance over the budget.
***************************************	inioonnooonnineerussisimin	ormocios sentralminime incidentamento		V-033 Valve Auto - Los Medanos, 3V, Ph.						***************************************				00000000000000000000000000000000000000				
140	23622	23622	97000521	1	Concord	GT/GC	13-Apr-13	21-Aug-13 \$	927,949.00 \$	782,199.44 \$	273,175.44 \$	152,963.28 \$	305,994.91 \$	50,065.81 \$	(145,749.56) \$	- \$	782,199.44 No	Delayed from 2012 to 2013 for efficiency reasons to
100				R-043 SP4Z RETIRE 0.42MI MP 8.18-8.43														coordinate work with other PSEP projects in the Antioch
141	24909	24909	97000661	PH1	Oakley	H&M	6-Mar-13	24-Apr-13 \$	259,826.00 \$	410,405.36 \$	108,523.21 \$	3,755.15 \$	334,784.88 \$	(36,657.88) \$	150,579.36 \$	- \$	410,405.36 Yes	Terminal Area.  Valve Automation site selected at Delta Fair (1 of 2)
9																		instead of Antioch Town Meter Station for constructability
142	24254	28282	97001181	V-031B Valve Auto Delta Fair, 1V, Ph. 1	Antioch	ARB	15-May-13	4-Oct-13 \$	1,406,045.00 \$	1,684,588.74 \$	402,066.51 \$	483,138.43 \$	2,240,066.77 \$	(1,440,682.97) \$	278,543.74 \$	- \$	- Yes	and cost reasons.

# TABLE 12-1 PACIFIC GAS AND ELECTRIC COMPANY PROJECT STATUS SUMMARY - PROJECTS COMPLETED JANUARY 1, 2013 – DECEMBER 31, 2013

Line #	PSEP Filing PSRS	New PSRS	Project Description	<b>Mobilization Date</b>	Tie-in Date	Job I	Estimate Amount Comments
1	23867	26041	R-056 L-220 REPL 4.93 MI MP 20.84-31.65 PH1	7/22/2013	1/10/2014	\$	34,249,047.00 Delayed from 2013 to 2014 due to construction related delays.
							Delayed from 2012 to 2013 due to workspace limitations at Milpitas Station and
2	24009	24009	I-001 L-131 MP 50.5-57.4 UPGRADE PH-1	2/14/2013	1/16/2014	\$	5,786,394.00 resource allocation to other higher priority PSEP work.
							Added to replace filed Valve Auto project Airport & Yosemite (PSRS 23664) for cost a
3	N/A	30094	V-068A Valve Auto - Airport & Louise, 3V, Ph. 1	10/1/2013	1/17/2014	\$	2,774,933.00 efficiency reasons due to construction complexities at the filed project site.
4	23926	29247	R-037 L-172A REPL 3.06MI MP 75.43-78.53 PH1	8/19/2013	1/27/2014	\$	34,400,009.99 Added as new replacement project as a result of data validation.
		T.			AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	DECEMBER CONTROL	Added as new replacement project from filed test project after most of test was
							removed due to records verified. Downgrading to distribution pressure because a ne
5	24272	29275	R-157 DFM-1603-01 REPL 1.42MI MP 0.07-1.30 PH1	9/17/2013	1/27/2014	\$	6,321,674.00 10" transmission line will run parallel.
							Delayed from 2012 to 2013 due to schedule and workload balancing. Pipe installatio
							was completed in 2013 with tie-in delayed to 2014 due to resource planning constria
							during winter when gas loads are high with the T&R crews which are necessary for ti
6	23533	28472	R-144 L-021C REPL 0.89MI MP 50.44-51.40 PH1	10/7/2013	1/30/2014	\$	12,248,463.00 in activities.
		COLUMN CONTRACTOR CONT			Martin Martin Control of the Control		Added as a new Valve Automation project (originally part of ILI scope) for cost
							efficiency reasons and to allow for standardization of Valve Automation. JE (Job
7	N/A	29634	V-085 Valve Auto - L-300A MLV 328.06, 1V, Ph. 1	12/5/2013	3/5/2014	\$	- Estimate) in progress.
							Added as a new Valve Automation project (originally part of ILI scope) for cost
8	N/A	29635	V-086 Valve Auto - L-300B MLV 327.83, 1V, Ph. 1	12/5/2013	3/6/2014	Ś	- efficiency reasons and to allow for standardization of Valve Automation. JE in progre
						HEROTOGO PER PROPERTO POR PORTA POR PROPERTO POR PORTA POR PROPERTO POR POR PROPERTO POR POR POR POR POR POR POR POR POR PO	Delayed from 2013 to 2014 due to environmental/species impacts experienced durin
							construction and subsequently due to clearance schedule balancing related to high
9	23811	23811	R-062 DFM-0603-01 REPL 0.68MI MP 0.00-0.57 PH1	7/15/2013	4/21/2014	Ś	2,006,181.00 winter gas loads.
							Delayed from 2013 to 2014 due to environmental/species impacts experienced durir
							construction and subsequently due to clearance schedule balancing related to high
10	23780	29401	R-064 DFM-0604-16 REPL 0.19 MI MP 0.00-0.18 PH1	10/1/2013	4/24/2014	\$	895,352.00 winter gas loads.
							Accelerated from 2014 to 2013 to accommodate a planned diameter increase from 8
11	24890	27904	R-202 DFM-1607-01 REPL 1.11MI MP 0.00-1.62 PH1	7/1/2013	5/29/2014	\$	5,486,817.00 to 12" to increase system capacity.
12	23657	23657	V-054 Valve Auto - Brentwood Terminal, 8V, Ph. 1	9/3/2013	11/14/2014	\$	<ul> <li>Delayed from 2013 to 2014 due to scheduling and workload balancing. JE in progress</li> </ul>
13	23597	23597	V-010 Valve Auto - Commercial Way, 0V, Ph. 1	4/17/2013	1/7/2014	\$	4,793,539.00 Delayed from 2012 to 2013 due to clearance constraints.

### TABLE 13-1 PACIFIC GAS AND ELECTRIC COMPANY

### PROJECT STATUS SUMMARY - PROJECTS COMPLETED JANUARY 1, 2013 – DECEMBER 31, 2013

The Company		PSEP Filing			Mobilization		Job Estimate
1	Line#		New PSRS	Project Description		Tie-in Date	
2							
1   33976   1797		A CONTROL OF THE PROPERTY OF T			\$222.000.000.000.000.000.000.000.000.000	en per la la compressa de la c	
2	3	23776	31979	RT-030 STUB8663-STUB8664-STUB8665-NV REPL PH1	\$1004\$H;Txtaxxx+8xx40x0x2x44x344x2x8x44bxxxx42x2x1x4xxxxxxxxxxxxxxxxxxxxxxxx	1/31/2014	
\$   2568   1509	4	23785	32017	RT-066 STUB6099-YO REPL PH1			
1.   1.   1.   1.   1.   1.   1.   1.	5	23787	31998	RT-043 DREG4548-SI REPL PH1	2/1/2014	2/15/2014	\$ - JE in progress.
8 2775 2201 16 progress  Note Control Profession 1 Profes	6	23689	31993	RT-047 DCUST2473-SJ REPL PH1	2/1/2014	2/15/2014	\$ - JE in progress.
20   23770   23150	7	23749	31972	RT-024 STUB7837-MI REPL PH1	2/17/2014	2/21/2014	\$ - JE in progress.
9	8	23785	32015	RT-064 DREG4453-YO REPL PH1	2/8/2014	2/21/2014 \$	
10   27747   23-99   RT-04-00CEACY-9 SEP, 911   271/2014   5   K. in progress.							Delayed from 2013 to 2014 due to difficulty in acquiring initial as-builts and subsequent design completion. JE in
1. 2798 3196	9	AND	NAVOSAISON PARAMENTA PROPERTIES PARAMENTA PROPERTIES PARAMENTA PAR		vision him in the comment of the com	983831602866386696999999666979996086869799669999999999	
1	\$1000 HORSELEGISHED HER STREET, STREET	CONTRACTOR AND ADDRESS OF THE ADDRES					
13   1997   31506   1927   21500   1927   21500   21	*****************************	CONTRACTOR	00000000000000000000000000000000000000			\$155600000000000000000000000000000000000	
14   2477   1171   118   123 COLFSTON   187 PM   127 PM	12	24890	31595	R-211 L-220 Dresser Coupling Mitigation MP3.02	3/1/2014	3/8/2014	
16		22255	04505		0 (4 (5 c) 4 (5 c)	0/0/0044	
15   22787   2000	\$10.000,000,000,000,000,000,000,000,000,0	ORIGINAL DE LA CONTRACTOR DEL CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE			HOOMERICAN PRODUCTION OF THE PRODUCT	
16   22788   31822   R. 2071   1774 REPL OUTMIN M.P. 2675 7.6.5 PMI   31/2014   31/4/1014   5   F. Improgress     18   22680   S. 10996   R. 1-050 DRESCLES IN REPLIED   31/2014   31/5/2014   5   F. Improgress     19   22680   R. 1-050 DRESCLES IN REPLIED   31/2014   31/5/2014   5   F. Improgress     19   2275   22	Beauty and the second s	CONTRACTOR	CONTRACTOR DE CO		NUT COLO TO TO TO TO THE COLO THE COLO TO THE COLO THE COLO TO THE COLO	NEDVOLUTORA ERE KISTARO GERRATON VICTORIA POR LEVO PROPROSE PROPROSE ARTERO POR LA PROPROSE PROPROSE PROPROSE POR LA PROPROSE	
17   22797   37011   THE STATE STATE   1   31/2/2014	CANADA CONTRACTOR AND	CONTRACTOR OF A PROPERTY OF A	NAMES OF THE PROPERTY OF THE P				
18 2569 31995 R1-05 ORIGINAL SEPE PHI 3/12/14 3/15/2014 S - En progress.  19 2579 2503 R 1451 306 FEP   O.1Ne MP 43 5 43 31 PH 3/19/2014 3/25/2014 S - Section because all except times 50 ft. of files test was removed from PHI - do to consist well-disprily subsequently delayed from 2013 to 2014 for to schedule and section of the sectio	Section of the sectio		\$0000000000000000000000000000000000000		magazingescencjasorega sporjecene essonalprancja sporacinopolonia esperacional de la compressional de la compressiona de la compressiona de la compressiona de la comp	\$200.0000000000000000000000000000000000	
Added a. Abort replacement project for cast efficiently response because all except these 95 fb. of filed free was removed from PLI due to recrost sententiable subsequently disigned from 2013 to 2014 day to exchedule and 2012 22750 31988 R. 105 013 fb. 105 214 day to except the 2013 to 2014 day to exchedule and 2014 22750 31997 T. 300.14 line 1.2 Los Banos 2711/2014 3/31/2014 S. J. En progress.  Added as new introgen seat project from filed replacement project for cost efficiency resums because the line in under a microst, then delived from 2013 to 2014 due to long lead permitting required from the railroad comps. Seath of the progress of the pro	\$99499954699948969996000000000000000000000000000	PATOTE TO THE SERVICE OF THE SERVICE	and the first of the contract		CANCELLA TOTAL CONTROL OF THE PROPERTY OF THE	SECRETARIO DE COMO POR POR PORTA DE COMO POR	
19   23539   29053   R. 145 L 306 REPLO (DIM MP 43 30 43.3) PH1   3/19/2014   3/25/2014   5   workload balan rappers   15 in progress   20   23750   31948   R. TOOL DESAUPC CERPLEN   3/17/2014   3/25/2014   5   En progress   Added a new introgen test project from fled replacement project for cost efficiency reasons because the line of the progress   27   27   27   27   27   27   27	10	23003	31330	M1-030 DIRECT101-33 REFETTI	3/3/2014	3/13/2014 \$	
19							
20   23790   31348   RT-0001 DF3429-CC REPL PH   3/17/2014   3/1	19	23529	29053	R-145 I -306 RFPL 0 01MLMP 43 30-43 31 PH1	3/19/2014	3/25/2014	
2	энтемприямилостичными изменествосско		000000000000000000000000000000000000000			000000000000000000000000000000000000000	
Added as new infringent test project from filed replacement project for cost efficiency reasons because the line under anilorad, then devel from 2013 to 2104 due to long lead permitting required from the railroad compt. Sept. 1978 (1978) 1979 (1974) 1970 (19							
22   24898   29426   TS-001-13, Line L-10SN-3, Oakland   2724/2014   3/31/2014   S   He in progress.							Added as new nitrogen test project from filed replacement project for cost efficiency reasons because the line runs
23   23   23   23   23   23   23   23							under a railroad, then delayed from 2013 to 2104 due to long lead permitting required from the railroad company.
24   23673   23673   23673   V-060 Valve Auto - N Sac Ugnd Hild, 3V, Ph. 1   1/21/2014   4/3/2014   5	22	24898	29426	TS-001-13, Line L-105N-3, Oakland	2/24/2014	3/31/2014	\$ - JE in progress.
25 N/A   31693   R-066 L-1198 REPL 1,12M MP 0,59-2,23 PH1   17/9/2014   4/10/2014   5   - Added new replacement project from filed test project as a result of data validation. JE in progress.	23	23787	30979	TS-015-14, Line GCUST5765, Live Oak	3/3/2014	3/31/2014	\$ - JE in progress.
26   2370   31981   RT-032 DREG3759-PN REPL EXPENSE PH1   3/12/2014   4/11/2014   5     E in progress.	24	23673	23673	V-060 Valve Auto - N Sac Ugnd Hldr, 3V, Ph. 1	1/21/2014	4/3/2014	\$ - JE in progress.
23728   29124   R-230L-103 REPL O.JIMI MP 22.02-02.21 PH	25	N/A	31693	R-066 L-119B REPL 1.12MI MP 0.59-2.23 PH1	1/29/2014	4/10/2014	Added new replacement project from filed test project as a result of data validation. JE in progress.
28	26	******************************	31981	RT-032 DREG3759-PN REPL EXPENSE PH1			
29   23471   23471   T.235-13, Line L-131Z, Rio Vista   3/3/2014   4/28/2014   5   Delayed from 2013 to 2014 to coordinate with other work in the vicinity. JE in progress.	27	23728	Contracting the Contracting Co	R-230 L-103 REPL 0.01MI MP 22.20-22.21 PH1			
30 24202 30908 T-301-14, Line L-2, Westley 3/6/2014 4/28/2014 \$ - JE in progress. 31 23665 23665 V-58 Valve Auto - 24th & 2014 No. 27th & 2014	Besternessessessessessessessesses	********************************	CONTRACTOR OF THE PROPERTY OF		QXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	######################################	
31 23665 23665 V-058 Valve Auto - 24th & 20th Ave, 3V, Ph. 1 1/31/2014 4/28/2014 \$ - JE in progress.  32 238.8 31369 T-405-14, Line DFM-1209-01, Fowler 3/11/2014 4/29/2014 \$ - JE in progress.  33 23652 23652 V-074 Valve Auto - Union Ave Meter Reg Sta, 1V, Ph. 1 3/15/2014 4/29/2014 \$ - JE in progress.  34 23539 31771 T-215-13, Line L-400, Antioch 3/13/2014 5/1/2014 \$ - Delayed from 2013 to 2014 due to design complexities related to the building of a bypass to support power pla on this line during clearance. JE in progress.  35 23973 23973 V-077 Valve Auto - Cummings Creek, 1V, Ph. 1 3/1/2014 5/1/2014 \$ - JE in progress.  36 23974 23974 V-078 Valve Auto - Tompkins Hill, 2V, Ph. 1 3/1/2014 5/5/2014 \$ - JE in progress.  37 23907 29715 T-358-14, Line DFM-6050-010, Ridgerest 3/4/2014 5/6/2014 \$ - JE in progress.  38 23849 23849 R-201 DFM-0404-11 REPL 0.02Mi MP 0.00-0.04 PH1 3/17/2014 5/8/2014 \$ - Delayed from 2013 to 2014 as a result of data validation. JE in progress.  39 23750 31951 R-1004 DRG5148-CC REPL PH1 4/28/2014 5/10/2014 \$ - JE in progress.  41 23667 23667 V-067 Valve Auto - Ripon-Modesto, 3V, Ph. 1 2/17/2014 5/16/2014 \$ - JE in progress.  42 23579 2579 T-335-14, Line DFM-1502-11, Manysville 4/18/2014 5/17/2014 \$ - JE in progress.  43 N/A 31293 R-200 L-114 REPL 0.12Mi MP 16.75-16.86 PH1 3/13/2014 5/20/2014 \$ - JE in progress.  44 23912 30945 T-332A-14, Line DFM-150-12, Yuba City 4/3/2014 5/20/2014 \$ - JE in progress.  45 23750 31952 R-1005 STUBEG03-CC REPL PH1 5/12/2014 5/20/2014 \$ - JE in progress.  46 23750 31952 R-1005 STUBEG03-CC REPLP H1 5/12/2014 5/20/2014 \$ - JE in progress.  47 23907 STUBEG03-CC REPLP PH1 5/12/2014 5/20/2014 \$ - JE in progress.  48 23912 30945 T-332A-14, Line DFM-150-10, Yuba City 4/3/2014 5/20/2014 \$ - JE in progress.  49 23912 30945 T-332A-14, Line DFM-150-10, Yuba City 4/3/2014 5/20/2014 \$ - JE in progress.  40 23912 30945 T-3352A-14, Line DFM-150-10, Yuba City 4/3/2014 5/20/2014 \$ - JE in progress.  41 Sin progress.  42 23912 30945 T-3352A-14, Line DFM-150-10, Yuba City 4/3/2014	Principal and Communication of the Communication of					nananarana and and and and an analysis and a second and a	,
32   23828   31369   T-405-14, Line DFM-1209-01, Fowler   3/11/2014   4/29/2014   \$ - JE in progress.		CONTRACTOR OF THE PROPERTY OF	CONTRACTOR DE L'ANTIDE DE			ATTACASTORY CONTROL OF THE PROPERTY OF THE PRO	
33   23652   23652   V-074 Valve Auto - Union Ave Meter Reg Sta, 1V, Ph. 1   3/15/2014   4/29/2014   5   Delayed from 2013 to 2014 due to design complexities related to the building of a bypass to support power pla on this line during clearance. JE in progress.    34   23539   31771   T-215-13, Line L-400, Antioch   3/13/2014   5/1/2014   5   Delayed from 2013 to 2014 due to design complexities related to the building of a bypass to support power pla on this line during clearance. JE in progress.   35   23973   23973   V-077 Valve Auto - Cummings Greek, IV, Ph. 1   3/11/2014   5/1/2014   5   JE in progress.   36   23974   23974   V-078 Valve Auto - Tompkins Hill, 2V, Ph. 1   3/11/2014   5/5/2014   5   JE in progress.   37   23907   29715   T-355-14, Line DFM-6603-01, Ridgecrest   3/4/2014   5/6/2014   5   JE in progress.   38   23849   R-201 DFM-0404-11 REPL 0.02MI MP 0.00-0.04 PH1   3/17/2014   5/8/2014   5   Delayed from 2013 to 2014 as a result of data validation. JE in progress.   39   23750   31951   RT-004 DREG5148-CC REPL PH1   4/28/2014   5/10/2014   5   JE in progress.   40   23731   30881   R-195 L-1628 REPL 0.85MI MP 6.62-7.40 PH1   4/2/2014   5/14/2014   5   JE in progress.   41   23667   23667   V-067 Valve Auto - Ripon-Modesto, 3V, Ph. 1   2/17/2014   5/16/2014   5   JE in progress.   42   23579   23579   T-335-14, Line DFM-1502-11, Marysville   4/18/2014   5/17/2014   5   JE in progress.   43   N/A   31293   R-200 L-114 REPL 0.12MI MP 1-67-16.86 PH1   3/13/2014   5/20/2014   5   JE in progress.   44   23912   30945   T-332A-14, Line DFM-1501-02, Yuba City   4/3/2014   5/20/2014   5   JE in progress.   45   23750   31952   RT-005 STUB6203-CC REPL PH1   5/12/2014   5/24/2014   5   JE in progress.   46   23912   30945   RT-005 STUB6203-CC REPL PH1   5/12/2014   5/24/2014   5   JE in progress.   47   47   47   47   47   47   47   47	\$	0.000,000,000,000,000,000,000,000,000,0	***************************************				
Delayed from 2013 to 2014 due to design complexities related to the building of a bypass to support power pla 34 23539 31771 T-215-13, Line L-400, Antioch 3/13/2014 5/1/2014 \$ - on this line during clearance. JE in progress. 35 23973 23973 V-077 Valve Auto - Cummings Creek, 1V, Ph. 1 3/11/2014 5/1/2014 \$ - JE in progress. 36 23974 23974 V-078 Valve Auto - Tompkins Hill, 2V, Ph. 1 3/11/2014 5/5/2014 \$ - JE in progress. 37 23907 29715 T-358-14, Line DFM-6603-01, Ridgecrest 3/4/2014 5/6/2014 \$ - JE in progress. 38 23849 23849 R-201 DFM-0404-11 REPL 0.02MI MP 0.00-0.04 PH1 3/17/2014 5/8/2014 \$ - Delayed from 2013 to 2014 as a result of data validation. JE in progress. 39 23750 31951 R-004 DREG5148 CC REPL PH1 4/28/2014 \$ 5/10/2014 \$ - JE in progress. 40 23731 30881 R-195 L-162A REPL 0.85MI MP 6.62-7 40 PH1 4/2/2014 5/14/2014 \$ - JE in progress. 41 23667 23667 V-067 Valve Auto - Ripon-Modesto, 3V, Ph. 1 2/17/2014 5/14/2014 \$ - JE in progress. 42 23579 23579 T-335-14, Line DFM-1502-11, Marysville 4/18/2014 \$ - JE in progress. 43 N/A 31293 R-200 L-114 REPL 0.12MI MP 16.75-16.86 PH1 3/13/2014 \$ 5/20/2014 \$ - JE in progress. 44 23912 30945 T-332A-14, Line DFM-1501-02, Yuba City 4/3/2014 \$ - JE in progress. 45 23750 31952 R-005 STUB6203-CC REPL PH1 5/12/2014 \$ - JE in progress. 46 23750 31952 R-005 STUB6203-CC REPL PH1 5/12/2014 \$ - JE in progress. 47 - JE in progress. 48 - JE in progress. 49 - JE in progress. 49 - JE in progress. 40 - JE in progress. 40 - JE in progress. 41 - JE in progress. 42 - JE in progress. 43 - JE in progress. 44 - JE in progress. 45 - JE in progress. 46 - JE in progress. 47 - JE in progress. 48 - JE in progress. 49 - JE in progress. 40 - JE in progress. 40 - JE in progress. 41 - JE in progress. 42 - JE in progress. 43 - JE in progress.	STATES OF THE PROPERTY OF THE		AND REPORTED BY A THE PARTY OF				
34 23539 31771 T-215-13, Line L-400, Antioch 3/13/2014 5/1/2014 \$ - on this line during clearance. JE in progress. 35 23973 23973 V-077 Valve Auto - Cummings Creek, 1V, Ph. 1 3/1/2014 5/1/2014 \$ - JE in progress. 36 23974 23974 V-078 Valve Auto - Tompkins Hill, 2V, Ph. 1 3/11/2014 5/5/2014 \$ - JE in progress. 37 23907 29715 T-358-14, Line DFM-6603-01, Ridgecrest 3/4/2014 5/6/2014 \$ - JE in progress. 38 23849 23849 R-201 DFM-0404-11 REPL 0.02MI MP 0.00-0.04 PH1 3/17/2014 5/8/2014 \$ - Delayed from 2013 to 2014 as a result of data validation. JE in progress. 39 23750 31951 R-004 DREG5148-CC REPL PH1 4/28/2014 5/10/2014 \$ - JE in progress. 40 23731 30881 R-195 L-162A REPL 0.85MI MP 6.62-7.40 PH1 4/2/2014 5/14/2014 \$ - JE in progress. 41 23667 23667 V-067 Valve Auto - Ripon-Modesto, 3V, Ph. 1 2/17/2014 5/16/2014 \$ - JE in progress. 42 23579 23579 T-335-14, Line DFM-1501-02, Yuba City 4/18/2014 5/10/2014 \$ - JE in progress. 43 N/A 31293 R-200 L-114 REPL 0.12MI MP 16.75-16.86 PH1 3/13/2014 5/20/2014 \$ - Added as new project as a result of data validation that identified a class location change. JE in progress. 44 23912 30945 T-332A-14, Line DFM-1501-02, Yuba City 4/3/2014 5/20/2014 \$ - JE in progress. 45 23750 31952 RT-005 STUB6203-CC REPL PH1 5/12/2014 5/24/2014 \$ - JE in progress.	33	23652	23652	V-U/4 Valve Auto - Union Ave Meter Reg Sta, 1V, Ph. 1	3/15/2014	4/29/2014	
35   23973   23973   V-077 Valve Auto - Cummings Creek, 1V, Ph. 1   3/1/2014   5/1/2014   5 - JE in progress.	2.4	22520	21771	T 215 12 Line L 400 Author	2/12/2014	E /1 /2014 6	
36 23974 23974 V-078 Valve Auto - Tompkins Hill, 2V, Ph. 1 3/11/2014 5/5/2014 \$ - JE in progress. 37 23907 29715 T-358-14, Line DFM-6603-01, Ridgecrest 3/4/2014 5/6/2014 \$ - JE in progress. 38 23849 23849 R-201 DFM-0404-11 REPL 0.02M IM P0.00-04 PH1 3/17/2014 5/8/2014 \$ - Delayed from 2013 to 2014 as a result of data validation. JE in progress. 39 23750 31951 RT-004 DREG5148-CC REPL PH1 4/28/2014 5/10/2014 \$ - JE in progress. 40 23731 30881 R-195 L-162A REPL 0.85M IM P6.62-7.40 PH1 4/2/2014 5/14/2014 \$ - JE in progress. 41 23667 23667 V-067 Valve Auto - Ripon-Modesto, 3V, Ph. 1 2/17/2014 5/16/2014 \$ - JE in progress. 42 23579 23579 T-335-14, Line DFM-1502-11, Marysville 4/18/2014 5/17/2014 \$ - JE in progress. 43 N/A 31293 R-200 L-114 REPL 0.12MI MP 16.75-16.86 PH1 3/13/2014 5/20/2014 \$ - JE in progress. 44 23912 30945 T-332A-14, Line DFM-1501-02, Yuba City 4/3/2014 5/20/2014 \$ - Added as new project as a result of data validation that identified a class location change. JE in progress. 45 23750 31952 RT-005 STUB6203-CC REPL PH1 5/12/2014 5/24/2014 \$ - JE in progress.	Secretario de la compansión de la compan	\$	15 NOTE OF THE PROPERTY OF THE				
37 23907 29715 T-358-14, Line DFM-6603-01, Ridgecrest 3/4/2014 5/6/2014 \$ - JE in progress.  38 23849 23849 R-201 DFM-0404-11 REPL 0.02MI MP 0.00-0.04 PH1 3/17/2014 5/8/2014 \$ - Delayed from 2013 to 2014 as a result of data validation. JE in progress.  39 23750 31951 RT-004 DREG5148-CC REPL PH1 4/28/2014 5/10/2014 \$ - JE in progress.  40 23731 30881 R-195 L-162A REPL 0.85MI MP 6.62-7.40 PH1 4/2/2014 5/14/2014 \$ - JE in progress.  41 23667 23667 V-067 Valve Auto - Ripon-Modesto, 3V, Ph. 1 2/17/2014 5/16/2014 \$ - JE in progress.  42 23579 23579 T-335-14, Line DFM-1502-11, Marysville 4/18/2014 5/17/2014 \$ - JE in progress.  43 N/A 31293 R-200 L-114 REPL 0.12MI MP 16.75-16.86 PH1 3/13/2014 \$ - Added as new project as a result of data validation that identified a class location change. JE in progress.  44 23912 30945 T-332A-14, Line DFM-1501-02, Yuba City 4/3/2014 5/20/2014 \$ - JE in progress.  45 23750 31952 RT-005 STUB6203-CC REPL PH1 5/12/2014 5/24/2014 \$ - JE in progress.	Commence and the contract of t	certal and an engineering encountries have proposed an encountries of the contract of the cont			rankinaning alabah manananan ang kalangan ang kalangan ang kalangan ang kalangan ang kalangan ang kalangan kal		
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43 N/A 31293 R-200 L-114 REPL 0.12MI MP 16.75-16.86 PH1 3/13/2014 \$ - Added as new project as a result of data validation that identified a class location change. JE in progress. 44 23912 30945 T-332A-14, Line DFM-1501-02, Yuba City 4/3/2014 \$ - JE in progress. 45 23750 31952 RT-005 STUB6203-CC REPL PH1 5/12/2014 \$ - JE in progress.	\$ powers and the property of t	ministration and reactive and responsible and the contract of					
44       23912       30945       T-332A-14, Line DFM-1501-02, Yuba City       4/3/2014       5/20/2014       \$ - JE in progress.         45       23750       31952       RT-005 STUB6203-CC REPL PH1       5/12/2014       \$ /24/2014       \$ - JE in progress.				,,,, ,	.,,	-,,	
44       23912       30945       T-332A-14, Line DFM-1501-02, Yuba City       4/3/2014       5/20/2014       \$ - JE in progress.         45       23750       31952       RT-005 STUB6203-CC REPL PH1       5/12/2014       \$ - JE in progress.	43	N/A	31293	R-200 L-114 REPL 0.12MI MP 16.75-16.86 PH1	3/13/2014	5/20/2014	Added as new project as a result of data validation that identified a class location change. JE in progress.
45 23750 31952 RT-005 STUB6203-CC REPL PH1 5/12/2014 5/24/2014 \$ - JE in progress.	PARTITION OF THE PARTIT		CANADA CONTRACTOR CONT				
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	Principal de la constitución de				4/28/2014		
47 23884 23884 T-319-14, Line DFM-0621-01, Woodland 4/17/2014 5/28/2014 \$ - JE in progress.				T 240 44 11 DEN 0524 04 14 11 1			

				JANUART 1,	2013 - DECEIVIBER 31, 2013	3
	PSEP Filing			Mobilization	Jol	p Estimate
Line#	PSRS	New PSRS	Project Description	Date	Tie-in Date A	Amount Comments
48	23690	31961	RT-014 DREG4794-FR REPL PH1	5/16/2014	5/30/2014 \$	- JE in progress.
49	24059	32296	T-406-14, Line L-057A, Discovery Bay	4/8/2014	5/30/2014 \$	- Added as new test from filed replacement project. JE in progress.
50	23741	31956	RT-009 STUB8203-DI REPL EXPENSE PH1	5/19/2014	5/31/2014 \$	- JE in progress.
51	23785	32011	RT-060 DF3338-DREG4460-YO REPL PH1	5/13/2014	5/31/2014 \$	- JE in progress.
52	23648	23648	V-076 Valve Auto - Bakersfield Tap, 3V, Ph. 1	4/15/2014	6/2/2014 \$	- JE in progress.
53	23520	30925	T-345B-14, Line L-197B, Woodbridge	4/10/2014	6/4/2014 \$	- JE in progress.
54	24055	31276	R-206 L-021H REPL 0.01MI MP 1.07-1.07 PH1	5/2/2014	6/6/2014 \$	- JE in progress.
55	23912	30946	T-332B-14, Line DFM-1501-02, Yuba City	4/3/2014	6/10/2014 \$	- JE in progress.
56	23796	29633	R-153 L-021C REPL 0.19MI MP 34.84-35.04 PH1	5/20/2014	6/12/2014 \$	- JE in progress.
57	23815	23815	R-010 L-108_2 REPL 0.14MI MP 48.16-48.20 PH1	4/5/2014	6/13/2014 \$	- JE in progress.
58	23895	31054	T-348-14, Line DFM-2408-01, Pleasanton	4/17/2014	6/13/2014 \$	- JE in progress.
59	23741	31957	RT-010 STUB9046-DI REPL EXPENSE PH1	6/2/2014	6/14/2014 \$	- JE in progress.
60	23740	31983	RT-034 DREG4339-PN REPL EXPENSE PH1	6/2/2014	6/14/2014 \$	- JE in progress.
61	23785	32012	RT-061 DREG4420-YO REPL PH1	6/2/2014	6/14/2014 \$	- JE in progress.
62	23481	30889	T-375-14, Line DFM-7226-02, Modesto	5/9/2014	6/14/2014 \$	- Delayed from 2013 to 2014 due to schedule and workload balancing. JE in progress.
						Delayed from 2012 to 2014 because this project requires ardering of leng lead items. In addition, this project
						Delayed from 2013 to 2014 because this project requires ordering of long lead items. In addition, this project
63	22554	22554	WOLCH I A F DI DI DI DI DI A	4 (24 (204 4	S 14 4 1204 4	requires an outage on Line 57B, on which there is limited clearance availability as this line is the sole feed to
63	23661	23661	V-056 Valve Auto - Bixler Rd, 3V, Ph. 1	1/21/2014	6/14/2014 \$	- PG&E's storage facilities on McDonald Island. All engineering will be completed in 2013. JE in progress.
64	24055	31267	R-199 L-021H REPL 0.06MI MP 6.38-6.42 PH1	5/14/2014	6/17/2014 \$	- JE in progress.
65	23867	31042	R-188 L-220 REPL 0.52MI MP 19.37-19.92 PH1	5/10/2014	6/20/2014 \$	- Delayed from 2013 to 2014 due to permits requiring long lead times. JE in progress.
CC	22024	20044	TIM 204 14 Line DENA 1401 01 Con Francisco	F /C/2014	C /20 /2014	Delayed from 2012 to 2014 to allow time for a direct assessment in September of 2013 to confirm pipe
66	23934	30944	TIM-364-14, Line DFM-1401-01, San Francisco	5/6/2014	6/20/2014 \$	- specifications prior to testing. JE in progress.
67	23672	23672	V-064 Valve Auto - East Fairfield Crossover, 4V, Ph. 1	5/5/2014	6/20/2014 \$	- JE in progress.
68	23894	23894	T-322-14, Line DFM-1027-01, Oroville	5/15/2014	6/21/2014 \$	- JE in progress.
69	23669	23669	V-059 Valve Auto - Yolo Causeway Blvd Tie, 2V, Ph. 1	3/26/2014	6/23/2014 \$	- JE in progress.  Added from filed test project due to short length. It is more cost efficient to replace this short length rather than
70	27628	30338	R-187 DFM-1816-15 REPL 0.03MI MP 3.04-3.07 PH1	5/29/2014	6/25/2014 \$	- hydrotest. JE in progress.
70	23679	23679	V-062 Valve Auto - Paramount Court, 1V, Ph. 1	4/15/2014	6/26/2014 \$	- If you otest. JE in progress JE in progress.
72	23718	31973	RT-025 BD8547-X6342-NB REPL PH1	6/16/2014	6/28/2014 \$	- JE in progress.
73	23740	31982	RT-033 DREG4198-PN REPL EXPENSE PH1	6/16/2014	6/28/2014 \$	- JE in progress JE in progress.
74	23911	31370	T-368-14, Line DFM-1501-01, Yuba City	5/16/2014	6/30/2014 \$	- JE in progress.
75	23559	23559	T-325-14, Line L-126A, Humboldt Hill	5/20/2014	7/10/2014 \$	- JE in progress.
76	23753	31953	RT-006 DFDS3587-DA REPL PH1	5/15/2014	7/12/2014 \$	- JE in progress.
77	23718	31974	RT-026 DF3223-DREG3870-NB REPL PH1	6/30/2014	7/12/2014 \$	- JE in progress.
78	23928	31984	RT-035 DFDS3613-DREG4482-SA REPL PH1	6/24/2014	7/12/2014 \$	- JE in progress.
79	23744	32003	RT-053 X6335-SO REPL PH1	6/30/2014	7/12/2014 \$	- JE in progress.
80	23644	23644	V-080 Valve Auto - Mojave River Crossing, 2V, Ph. 1	5/28/2014	7/14/2014 \$	- JE in progress.
81	23650	23650	V-075 Valve Auto - Gosford Rd Mtr Sta, 3V, Ph. 1	5/28/2014	7/15/2014 \$	- JE in progress.
82	23646	23646	V-079 Valve Auto - 2AX Pls, 2V, Ph. 1	6/11/2014	7/15/2014 \$	- JE in progress.
83	23785	32019	RT-068 STUB6104-YO REPL PH1	6/24/2014	7/16/2014 \$	- JE in progress.
84	23724	25719	R-067 L-109_2B REPL 0.18MI MP 2.82-10.15 PH1	4/24/2014	7/18/2014 \$	- Delayed from 2013 to 2014 due to permitting and planning constraints. JE in progress.
						Delayed from 2012 to 2013 initially to coordinate work with other 2013 tests, but then delayed further to reduce
85	23575	23575	T-075-12, Line DFM-0611-01, Sacramento	5/30/2014	7/18/2014 \$	- the impact on customers and to coordinate work with other projects scheduled for 2014. JE in progress.
86	23794	31964	RT-016 DCUST9089-HB REPL PH1	5/16/2014	7/23/2014 \$	- JE in progress.
87	23794	31965	RT-017 DREG3841-HB REPL PH1	5/16/2014	7/23/2014 \$	- JE in progress.
						Delayed from 2013 to 2014 to balancing of resources (CNG/LNG) related to providing adequate customer support
88	23929	25886	T-094-12, Line DFM-1816-01, Monterey	6/11/2014	7/23/2014 \$	- during clearance. JE in progress.
100 Te						Delayed from 2013 to 2014 to balancing of resources (CNG/LNG) related to providing adequate customer support
89	23929	25888	T-095-12, Line DFM-1816-01, Capitola	6/11/2014	7/23/2014 \$	- during clearance. JE in progress.
90	23783	23783	R-177 DFM-1509-01 REPL 0.27MI MP 0.05-0.33 PH1	5/23/2014	7/26/2014 \$	- JE in progress.
91	23718	31975	RT-027 DFDS3544-DREG3876-NB REPL PH1	7/14/2014	7/26/2014 \$	- JE in progress.
92	23928	31985	RT-036 DREG4050-SA REPL PH1	7/14/2014	7/26/2014 \$	- JE in progress.

				JANUARY 1,	2013 – DECEMBER 31, 201	13
Line#	PSEP Filing PSRS	New PSRS	Devices Devices	Mobilization		b Estimate
пе #	CACY	New PSRS	Project Description	Date	Tie-in Date	Amount Comments  Delayed from 2012 to 2014 to coordinate work with a potential rebuild of the Regulator Station at Miller Creel
93	23535	30909	T-379-14, Line L-021H, San Rafael	6/10/2014	7/29/2014 \$	- Road. JE in progress.
						A portion of this original project was tied-in in 2012 (PSRS 23366) with this 149 feet to be completed in 2013
						because a school could not take the outage required for clearance in 2012; however, it has now been delayed
						2014 to coincide with other work on the line so this portion has been split to a separate project and the other
94	23365	30791	R-192 L-109 REPL 0.03MI MP 9.87-9.88 Spread 6B	6/2/2014	7/31/2014 \$	- portion reported as complete. JE in progress.
95	23785	32016	RT-065 DREG4454-YO REPL PH1	7/17/2014	7/31/2014 \$	- JE in progress.
***************************************	***************************************					Delayed from 2012 to 2014 as a result of data validation and due to schedule and workload balancing. JE in
96	23533	25836	T-066-12, Line L-021C, Cotati	6/17/2014	8/1/2014 \$	- progress.
						Delayed from 2013 to 2014 due to the number of other projects currently in progress at Irvington. Design,
97	23634	23634	V-043 Valve Auto - Irvington, 7V, Ph. 1	6/11/2014	8/2/2014 \$	<ul> <li>engineering and permitting activities are targeted to be completed in 2013. JE in progress.</li> </ul>
98	23786	27752	R-104 DFM-0405-01 REPL 0.50MI MP 3.03-3.30 PH1	5/8/2014	8/5/2014 \$	<ul> <li>Delayed from 2013 to 2014 due to scheduling and workload balancing. JE in progress.</li> </ul>
						Added new project due to a class location change. The segment will be replaced due to its short length. It is r
99	N/A	31336	R-197 DFM-6605-01 REPL 0.05MI MP 0.00-0.05 PH1	7/8/2014	8/5/2014 \$	- cost efficient to replace this short length rather than hydrotest. JE in progress.
						Added as new project as a result of data validation due to lack of strength test records and will be replaced du
100	N/A	31366	R-204 L-301C REPL 0.01MI MP 17.25-17.26 PH1	6/26/2014	8/5/2014 \$	- short length. It is more cost efficient to replace this short length rather than hydrotest. JE in progress.
						Delayed from 2013 to 2014 for constructability reasons and due to scheduling and workload balancing. JE in
.01	23633	23633	V-042 Valve Auto - Vargas Crossover 2V, Ph. 1	6/13/2014	8/5/2014 \$	- progress.
.02	23785	32018	RT-067 STUB6102-YO REPL PH1	8/1/2014	8/6/2014 \$	- JE in progress.
03	23561	23561	T-326-14, Line L-126B, Humboldt Hill	6/16/2014	8/7/2014 \$	- JE in progress.
						Delayed from 2012 to 2013 to accommodate other higher priority tests for Integrity Management in 2012. The
.04	23874	25847	T-016-12, Line L-131_2, Fremont	6/17/2014	8/8/2014 \$	- further delayed to 2014 due to schedule and workload balancing. JE in progress.
05	23928	31986	RT-037 DREG4095-SA REPL PH1	7/28/2014	8/9/2014 \$	- JE in progress.
.06	23744	32002	RT-052 DREG3803-DREG3808-SO REPL PH1	7/28/2014	8/9/2014 \$	- JE in progress.
.07	N/A	30948	T-022A-12, Line L-191-1, Lafayette	6/24/2014	8/12/2014 \$	- JE in progress.
108	23822	28468	R-059 L-123 REPL 4.01MI MP 0.00-9.74 PH1	2/27/2014	8/13/2014 \$	- Accelerated from 2014 to 2013 to accommodate a required Integrity Management assessment. JE in progress
109	24196		R-194 DFM-0611-05 REPL 0.07MI MP 0.00-0.12 PH1 < <t-076b-12>&gt;</t-076b-12>	6/24/2014	8/13/2014 \$	- JE in progress.
						Delayed from 2012 to 2013 initially to coordinate work with other 2013 tests, but then delayed further to red
L10	23577	26124	T-076B-12, Line DFM-0611-02, Sacramento	6/24/2014	8/13/2014 \$	- the impact on customers and to coordinate work with other projects scheduled for 2014. JE in progress.
etterson oversom to						
						Delayed from 2012 to 2013 initially to coordinate work with other 2013 tests, but then delayed further to rec
11	24196	25856	T-077-12, Line DFM-0611-05, Sacramento	6/24/2014	8/13/2014 \$	- the impact on customers and to coordinate work with other projects scheduled for 2014. JE in progress.
12	23706	32005	RT-054 DCUST1739-ST REPL PH1	8/1/2014	8/16/2014 \$	- JE in progress.
	Control of the Contro					Delayed from 2013 to 2014 due to efforts related to combining work for scheduling and cost efficiency reaso
13	23659	23659	V-055C Valve Auto - Lakes Valve Lot, 1V, Ph. 1	6/30/2014	8/16/2014 \$	- in progress.
14	24079	26053	R-057 L-124A REPL 4.71MI MP 20.63-26.27 PH1	5/30/2014	8/19/2014 \$	<ul> <li>Delayed from 2013 to 2014 due to scheduling and workload balancing. JE in progress.</li> </ul>
15	23704	30361	R-165 L-109_3AA REPL 0.27MI MP 17.01-17.11 PH1	7/1/2014	8/21/2014 \$	- JE in progress.
16	N/A	30891	T-374-14, Line L-189, Humboldt	7/3/2014	8/21/2014 \$	- Added as new project as a result of data validation and some added segments due to proximity. JE in progres
17	23514	23514	T-343-14, Line L-191A, Lafayette	7/8/2014	8/26/2014 \$	- JE in progress.
.18	23717	23717	R-171 DFM-1209-05 REPL 0.03MI MP 4.99-5.02 PH1	7/31/2014	8/27/2014 \$	- JE in progress.
.19	24901	24901	R-203 L-118-1 REPL 0.02MI MP 0.01-0.03 PH1	8/1/2014	8/28/2014 \$	- Delayed from 2013 to 2014 due to schedule and workload balancing. JE in progress.
				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Delayed from 2012 to 2013 to accommodate other higher priority tests for Integrity Management in 2012. The
L20	23574	25814	T-002-12, Line DFM-0401-01, San Rafael	7/11/2014	8/28/2014 \$	- further delayed to 2014 due to schedule and workload balancing. JE in progress.
						Delayed from 2012 to 2013 to accommodate other higher priority tests for Integrity Management in 2012. The
	23574	25817	T-003-12, Line DFM-0401-01, San Rafael	7/11/2014	8/28/2014 \$	- further delayed to 2014 due to schedule and workload balancing. JE in progress.
21	23706	32006	RT-055 DREG4921-ST REPL PH1	8/18/2014	8/30/2014 \$	- JE in progress.
			RT-069 STUB6183-YO REPL PH1	8/8/2014	8/30/2014 \$	- JE in progress.
.22	23785	32020				
.22	ngrapagnapagnapagnapagnapagnapagnapagnap	32020				Delayed from 2013 to 2014 for constructability reasons related to a construction moratorium on the road un
121 122 123 124	ngrapagnapagnapagnapagnapagnapagnapagnap	27607	T-221-13, Line DFM-0405-01, Napa	7/14/2014	9/5/2014 \$	Delayed from 2013 to 2014 for constructability reasons related to a construction moratorium on the road uncomplete which this line runs. JE in progress.
.22 .23	23785	himming (1000)	T-221-13, Line DFM-0405-01, Napa	7/14/2014	9/5/2014 \$	

	PSEP Filing			Mobilization		Job Estimate
Line#	PSRS	New PSRS	Project Description	Date	Tie-in Date	Amount Comments
126	23928	31987	RT-038 DREG4327-SA REPL PH1	9/2/2014		\$ - JE in progress.
127	23706	32007	RT-056 BD428-ST REPL PH1	9/2/2014		\$ - JE in progress.
128	23785	32013	RT-062 DREG4446-YO REPL PH1	9/2/2014	40000000000000000000000000000000000000	\$ - JE in progress.
129	23670	23670	V-065 Valve Auto - Fairfield Crossover 4V, Ph. 1	6/7/2014		\$ - JE in progress.
130	23704	31059	T-400-14, Line L-109, Woodside	8/6/2014	CONTONIONAL CONTONIONA	\$ - Added as a new test from a filed replacement project for constructability reasons. JE in progress.
131	TBD	TBD	T-407-14, Line DFM-0206-01, Woodside	8/6/2014		\$
						Delayed from 2012 to 2013 to accommodate other higher priority tests for Integrity Management in 2012. Then
132	23574	25818	T-004-12, Line DFM-0401-01, San Rafael	8/1/2014	9/18/2014	\$ - further delayed to 2014 due to schedule and workload balancing. JE in progress.
						Delayed from 2012 to 2013 to accommodate other higher priority tests for Integrity Management in 2012. Then
133	23574	25823	T-005-12, Line DFM-0401-01, Greenbrae	8/1/2014	9/18/2014	\$ - further delayed to 2014 due to schedule and workload balancing. JE in progress.
		***************************************				Delayed from 2012 to 2013 as a result of environmental/species issues. This valve is in a marsh in San Francisco
						where numerous protected species are present. Then delayed further from 2013 to 2014 due to the extended time
134	23599	23599	V-012 Valve Auto - Lomita Park, 1V, Ph. 1	5/14/2014	9/23/2014	\$ - period that the CEQA process for the environmental/species issues took. JE in progress.
135	23972	23972	V-044 Valve Auto - Sheridan Rd, 2V, Ph. 1	7/7/2014	province on conscionation and an arrangement of the construction o	\$ - Delayed from 2013 to 2014 due to the presence of CA Tiger Salamander. JE in progress.
136	23928	31988	RT-039 STUB8028-SA REPL PH1	9/15/2014		\$ - JE in progress.
137	23706	32008	RT-057 DREG4892-ST REPL PH1	9/15/2014	9/27/2014	\$ - JE in progress.
						Delayed from 2013 to 2014 due to permits requiring long lead times related to an environmentally sensitive area.
138	23489	27619	T-236-13, Line L-137B, Eureka	8/1/2014	9/29/2014	\$ - JE in progress.
						Delayed from 2012 to 2013 to accommodate other higher priority tests for Integrity Management in 2012. Then
139	23590	25832	T-010-12, Line DFM-0407-01, Napa	8/12/2014	NAMES OF THE PARTY	further delayed to 2014 due to schedule and workload balancing. JE in progress.
140	23540	23540	T-313-14, Line L-050A, Oroville	9/2/2014	9/30/2014	\$ - JE in progress.
		W 100 P				
141	24052	29743	R-158 L-021D REPL 0.62MI MP 18.65-19.27 PH1	8/16/2014	water and the second se	5 - Delayed from 2013 to 2014 due to permits requiring long lead times and land acquisition challenges. JE in progress.
142	24052	26049	R-060 L-021D REPL 2.65MI MP 19.27-24.49 PH1	8/11/2014	CONTRACTOR OF CAST CONTRACTOR OF	\$ - Delayed from 2013 to 2014 due to scheduling and workload balancing. JE in progress.
143	23796	29631	R-205 L-021C REPL 0.55MI MP 31.85-32.39 PH1	8/8/2014		\$ - JE in progress.
144	23702	27951	R-061 L-196A REPL 2.00MI MP 11.58-13.45 PH1	6/17/2014	ADELAGA AND AND ENTREMEDIA DE SERVICIO DE	<ul> <li>Delayed from 2013 to 2014 due to scheduling and workload balancing. JE in progress.</li> </ul>
145	23704	27018	R-052 L-109_3C REPL 0.78 MI MP 23.30-24.00 PH1	6/10/2014	CARANTONIO CONTRACTOR DE C	\$ - JE in progress.
146	23688	26048	R-103 L-114_2 REPL 2.17MI MP 10.50-12.68 PH1	4/8/2014	CHILDRED COOK AND THE PROPERTY AND	\$ 17,728,647.84 Delayed from 2012 to 2014 due to permits requiring long lead times.
147	N/A	30922	T-363-14, Line L-142S, Bakersfield	8/26/2014	10/17/2014	
148	23632	23632	V-041 Valve Auto - Foley's Ranch Crossover, 6V, Ph. 1	6/7/2014	10/20/2014	
149	23883	23883	T-341-14, Line DFM-1869-01, Salinas R-048 L-109 4C REPL 1.26MI MP 30.52-31.76 PH1	9/22/2014	10/24/2014	
150 151	23692 23704	26025 26516	R-031 L-109_3B_1 REPL 1.29MI MP 18.61-19.71 PH1	6/21/2014	LCDA OFFICIAL PROCESSOR AND PROFESSOR AND PROCESSOR AND AND PROCESSOR AND	\$ - JE in progress. \$ - JE in progress.
151	24219	30927	T-350-14, Line L-300B, Hinkley	4/19/2014 9/17/2014		
153	23692	26023	R-046 L-109_4A_1 REPL 2.35MI MP 24.84-27.26 PH1	7/1/2014	11/13/2014	\$ - JE in progress. \$ - JE in progress.
154	24219	30928	T-351-14, Line L-300B, Boron	10/10/2014		\$ - JE in progress.
155	24219	24900	R-016 L-108_3 REPL 2.55MI MP 63.49-65.96 PH1	8/6/2014	11/25/2014	
156	23736	31368	T-404-14, Line DFM-0107-01, Oakland	10/15/2014	11/25/2014	
157	23822	30616	R-167 L-123 REPL 1.73MI MP 4.35-13.74 PH1	8/26/2014	11/26/2014	
158	23704	30589	R-166 L-109_3B_2 REPL 1.64MI MP 20.38-22.20 PH1	4/23/2014	11/29/2014	
159	23728	31033	R-190 L-103 REPL 0.17MI MP 9.71-9.86 PH1	10/1/2014		\$ - JE in progress.
160	24059	26057	R-055 L-057A REPL 1.58MI MP 8.83-10.44 PH1	8/19/2014		\$ - Delayed from 2013 to 2014 due to scheduling and workload balancing. JE in progress.
161	24077	30790	R-189 L-108_1B REPL 0.05MI MP 38.17-38.22 PH1	8/18/2014	12/13/2014	
			11 103 1 100 10 10 10 10 10 10 10 10 10 10 10	0/20/202		Delayed from 2014 to 2015 due to environmental/species concerns around San Mateo Creek and related long lead
162	23692	30667	R-185 L-109_4A_2 REPL 1.62MI MP 28.60-30.11 PH1	11/13/2014	4/10/2015	\$ - permitting required. JE in progress.
163	24027	24027	I-060 L-101(S) MP 0.00-11.62 ILI & Analysis PH1	TBD		\$ - JE in progress.
164	24028	24028	I-061 L-101 MP 11.62-33.68 ILI & Analysis PH1	TBD		\$ - JE in progress.
165	24026	24026	I-062 L-132 MP 31.7-38.4 ILI & Analysis PH-1	TBD		\$ - JE in progress.
166	24010	24010	I-063 L-131 MP 50.5-57.4 ILI & Analysis PH-1	TBD	TBD	\$ - JE in progress.
167	24024	24024	I-064 L-300A MP 299.00-352 ILI & Analysis PH-1	TBD	TBD	\$ - JE in progress.
168	24018	24018	I-065 L-300B MP 299-351.8 ILI & Analysis PH-1	TBD	TBD	\$ - JE in progress.
169	23728	18025	R-008 L-108 REPL 1.92MI MP 38.17-40.27 (Non-PSEP)	TBD	TBD	\$ - JE in progress.
170	24077	18579	R-009 L-108 REPL 3.05MI MP 40.27-43.46 (Non-PSEP)	TBD	TBD	\$ - JE in progress.
171	23727	26010	R-058 L-021F REPL 2.16MI MP 0.00-2.15	TBD	TBD	\$ - JE in progress.
172	23728	23788	R-068 L-103 REPL 0.17MI MP 9.71-9.88	TBD		\$ - JE in progress.

	PSEP Filing			Mobilization		Job	Job Estimate
Line #	PSRS	New PSRS	Project Description	Date	Tie-in Date	Α	Amount Comments
173	23470	28494	R-143 DFM-7222-01 REPL 0.62MI MP 0.00-0.61	TBD	TBD	\$	- JE in progress.
174	23728	28164	R-146 L-103 REPL 1.29MI MP 17.99-22.21	TBD	TBD	\$	- JE in progress.
175	24553	29067	R-149 L-153 REPL 0.12MI MP 3.45-3.58	TBD	TBD	\$	- JE in progress.
176	23750	31949	RT-002 DF3441-CC REPL PH1 [Postponed]	TBD	TBD	\$	- JE in progress.
177	23750	31950	RT-003 DFDS3572-CC REPL PH1	TBD	TBD	\$	- JE in progress.
178	23690	31958	RT-011 BD8772-FR REPL PH1	TBD	TBD	\$	- JE in progress.
179	23690	31959	RT-012 DF6856-FR REPL PH1	TBD	TBD	\$	- JE in progress.
180	23690	31963	RT-015 STUB7093-FR REPL PH1	TBD	TBD	\$	- JE in progress.
181	23928	31990	RT-041 X6405-SA REPL PH1	TBD	TBD	\$	- JE in progress.
182	23928	31991	RT-042 X6921-SA REPL PH1	TBD	TBD	\$	- JE in progress.
183	23689	31995	RT-049 DF3475-SJ REPL PH1	TBD	TBD	\$	- JE in progress.
184	23706	32009	RT-058 STUB9112-ST REPL PH1	TBD	TBD	\$	- JE in progress.
185	23785	32010	RT-059 BD453-YO REPL PH1	TBD	TBD	\$	- JE in progress.
186	23785	32014	RT-063 DREG4449-YO REPL PH1	TBD	TBD	\$	- JE in progress.
187	23785	32021	RT-070 STUB6314-YO REPL PH1	TBD	TBD	\$	- JE in progress.
188	23657	23657	V-054B Valve Auto - Brentwood Terminal, 8V, Ph. 1	TBD	TBD	\$	<ul> <li>Delayed from 2013 to 2014 due to scheduling and workload balancing. JE in progress.</li> </ul>
189	23657	23657	V-054C Valve Auto - Brentwood Terminal, 8V, Ph. 1	TBD	TBD	\$	<ul> <li>Delayed from 2013 to 2014 due to scheduling and workload balancing. JE in progress.</li> </ul>
190	23657	23657	V-054D Valve Auto - Brentwood Terminal, 8V, Ph. 1	TBD	TBD	\$	<ul> <li>Delayed from 2013 to 2014 due to scheduling and workload balancing. JE in progress.</li> </ul>
191	23657	23657	V-054E Valve Auto - Brentwood Terminal, 8V, Ph. 1	TBD	TBD	\$	<ul> <li>Delayed from 2013 to 2014 due to scheduling and workload balancing. JE in progress.</li> </ul>
192	23657	23657	V-054F Valve Auto - Brentwood Terminal, 8V, Ph. 1	TBD	TBD	\$	<ul> <li>Delayed from 2013 to 2014 due to scheduling and workload balancing. JE in progress.</li> </ul>
193	23740	31980	RT-031 DF3216-PN REPL EXPENSE PH1	8/25/2014	8/30/2014	\$	- JE in progress.
194	24254	31367	R-042 SP-3 REPL 0.01MI MP 174.29-174.29 (HWY4) PH1	9/25/2014	11/5/2014	\$	Delayed from 2012 to 2014 after scope change that added segments after others were removed due to records verified in 2012 to allow completion of engineering and constructability analysis. Then delayed further due to scheduling and workload balancing. JE in progress.

	New						Schedule		
Line#	PSRS	Project Description	Region	Risk	Description Additional work or resources may be required to adequately	Cost Impact (\$)	Impact (Days)	>10% Variand	ce Comments
					support customer loads during clearance and to meet potentially				CNG (Compressed Natural Gas) resources were not available when needed so
1	25861	T-023-12, Line L-191-1, Martinez	Bay	Clearance	tight clearance windows.	\$70,000	1	Yes	a schedule delay was experienced.
				Changes After IFB (Issue For	Any changes to the project scope that were excluded from or occurred after IFB (e.g. additional sniff holes, expanded				PG&E agreed to re-rock a trail through Briones Park that was used for ingress and egress during construction in order to appease the Parks and Recreation
2	25861	T-023-12, Line L-191-1, Martinez	Bay	Bid)	excavation, added replacement/test length, etc.).	\$33,000	N/A	Yes	Department.
e e anima	initial Control		Manifestorie.	Field Conditions Differ from	As-built drawings and/or GIS may not match what is encountered	istimusis a stationa		militarina di	Additional fitting work and welding was necessary related to a change in
3	25861	T-023-12, Line L-191-1, Martinez	Bay	Expected Conditions	in the field. Pipe, valves or fittings may be leaking or faulty requiring	\$13,000	N/A	Yes	engineering design.  A third party line strike was encountered which will now require additional
				Unexpected Condition of Pipe,	additional work to repair or replace them, including linear				excavation so that GE can do a pit survey on the pipe and check for corrosion.
4	28411	T-211B-13, Line L-187, Chualar	Ctr Cst	Valves or Fittings	indications on the pipe.	\$66,000	N/A	No	This resulted in additional costs to this project.
									The test length was extended to do a nitrogen test inside the Harkins Rd Reg Station in order to facilitate work scheduled to be done in 2014. Testing was a
					Any changes to the project scope that were excluded from or				mitigation effort because otherwise the pipe would have needed
					occurred after IFB (e.g. additional sniff holes, expanded				replacement in 2014 which is more expensive. This was a mitigation effort for
5	28411	T-211B-13, Line L-187, Chualar	Ctr Cst	Changes After IFB	excavation, added replacement/test length, etc.).	\$200,000	N/A	No	2014.
				Unexpected Condition of Pipe,	Pipe, valves or fittings may be leaking or faulty requiring additional work to repair or replace them, including linear				Pipe with laminations (imperfections in pipe wall material) were encountered
6	27617	T-230-13, Line L-118B, Madera	Ctr Vly	Valves or Fittings	indications on the pipe.	\$60,000	N/A	No	so it was necessary to replace a section of pipe.
					Potential issues may occur while pigging the line that cause	ana 2 3 700 da			The PIGs (Pipeline Inspection Gauges) became stuck delaying the project while
7	27617	T-230-13, Line L-118B, Madera	Ctr Vly	Pigging	delays or cost increases to resolve them.	\$50,000	2	No	they were freed.
					Potential impacts to contractor productivity caused by multiple				
					issues which may result in contractor moving to another				Clearance crews and CNG resource availability has caused delays to this
8	27617	T-230-13, Line L-118B, Madera	Ctr Vly	Productivity Impacts	construction location on-site or other methods of mitigation.	\$500,000	36	No	project as a result of other test schedules slipping. Sludge was left over in the Baker tanks after the hydrotest due to the time it
									took to analyze a sample. PSC was called to properly clean the Baker tanks
				Contaminated or Dirty Test	Any variety of contaminants could be found in the water and				and additional costs were also incurred for rental of the tanks and labor while
9	27617	T-230-13, Line L-118B, Madera	Ctr Vly	Water (other than Hg)	require additional costs to sample, clean, etc.	\$500,000	N/A	No	cleaning was conducted.
					Potential impacts to contractor productivity caused by multiple				
		T-225A-13, Line DFM-0604-07, Vacaville			issues which may result in contractor moving to another				The test was split into 2 clearances and 2 tests due to limited CNG resource
10	27611	T-225B-13, Line DFM-0604-07, Vacaville	North	Productivity Impacts	construction location on-site or other methods of mitigation.  Pipe, valves or fittings may be leaking or faulty requiring	\$600,000	18	No	availability.
		T-225A-13, Line DFM-0604-07, Vacaville		Unexpected Condition of Pipe,	additional work to repair or replace them, including linear				Wood was encountered in the portion of the line for test A which was causing
11	27611	T-225B-13, Line DFM-0604-07, Vacaville	North	Valves or Fittings	indications on the pipe.	\$50,000	2	No	pigs to become stuck. This resulted in a delay and cost increase to resolve.
					Cleaning Hg from piping associated prior to strength testing. This				On the B portion of the test, high levels of mercury were encountered resulting in a delay and cost increases for additional cleaning because other
		T-225A-13, Line DFM-0604-07, Vacaville		Mercury Cleaning - Strength	includes the requirement to meet drinking water standards of				portions of the line had not required cleaning so it had not been identified as
12	27611	T-225B-13, Line DFM-0604-07, Vacaville	North	Test	rinse water prior to hydrostatically testing.	\$40,000	2	No	needed here.
					Unplanned support (equipment or labor) was provided to other				
		T-225A-13, Line DFM-0604-07, Vacaville			teams such as GC, CNG, or LNG because they did not have				Extended support was supplied to T & R for the clearances and tie-ins since
13	27611	T-225B-13, Line DFM-0604-07, Vacaville	North	Support for Other Work Teams	sufficient resources available at the time that they were needed.	\$80,000	N/A	No	they were above the contracted 10 hour day.
4.4	07644	T-225A-13, Line DFM-0604-07, Vacaville		Field Conditions Differ from	As-built drawings and/or GIS may not match what is encountered	450.000			There was difficulty in locating PCFs (Pressure Control Fittings) resulting in cost
14	27611	T-225B-13, Line DFM-0604-07, Vacaville	North	Expected Conditions	in the field.	\$60,000	N/A	No	impacts, but no schedule delays.  Some non-PG&E unknown/un-marked utilities were encountered during
					Potential interference with unmarked and unknown obstructions				excavation requiring some re-engineering to work around. NOTE: Float was
		T-318A-14, Line DFM-0604-06, Vacaville			The state of the s			distributed to the	built into the schedule which avoided an impact and the re-engineering was
15	23567	T-318B-14, Line DFM-0604-06, Vacaville	North	Excavation	potentially delaying construction and resulting in additional cost.	Mitigated	Mitigated	No	done very efficiently avoiding further impacts.  Several PCFs were not where the drawings indicated they should be so costs
		T-318A-14, Line DFM-0604-06, Vacaville		Field Conditions Differ from	As-built drawings and/or GIS may not match what is encountered				were incurred for additional excavations and a schedule delay was
16	23567	T-318B-14, Line DFM-0604-06, Vacaville	North	Expected Conditions	in the field.	N/A	N/A	No	experienced.
					Unplanned support (equipment or labor) was provided to other				
		T-318A-14, Line DFM-0604-06, Vacaville			teams such as GC, CNG, or LNG because they did not have				The contractor provided support in the form of labor to the T & R group
17	23567	T-318B-14, Line DFM-0604-06, Vacaville	North	Support for Other Work Teams	sufficient resources available at the time that they were needed.	N/A	N/A	No	during clearance.
					Impacts resulting from contractor or sub-contractor negligence or				An insufficient number of baker tanks were rented so it was necessary to rent
18	29707	T-355-14, Line L-300B, Kern	Ctr Vly	Errors and Omissions	oversight related to the work, product or property.	\$50,000	N/A	No	additional tanks.

	New						Schedule		
ine # 19	PSRS 27760	Project Description T-285-13, Line X6526, Kettleman City	Region Ctr Vly	Risk Hydrostatic Test Rupture/Leak	Description  Potential rupture or leak during a hydrostatic test results in increased cost.	Cost Impact (\$) \$50,000	Impact (Days) :	>10% Variand No	Comments  A rupture was experienced so a 40 ft section of pipe was replaced resulting is cost increases and a schedule delay. NOTE: Despite this issue, the project was under budget.
20	31511	T-288A-13, Line L-300B, Bear Valley Springs T-288B-13, Line L-300B, Bear Valley Springs	Ctr Vly	Changes After IFB	Any changes to the project scope that were excluded from or occurred after IFB (e.g. additional sniff holes, expanded excavation, added replacement/test length, etc.).	\$50,000	N/A	No	A change was made in the test execution plan to decrease the length of the schedule so it was necessary to rent additional baker tanks to support this change.
			10						
21	31511	T-288A-13, Line L-300B, Bear Valley Springs T-288B-13, Line L-300B, Bear Valley Springs	Ctr Vly	Errors and Omissions	Impacts resulting from contractor or sub-contractor negligence or oversight related to the work, product or property.	\$15,000	N/A	No	The discharge rate was slower than anticipated so rental costs for the baker tanks were increased.
		T-051D-12, Line L-142N, Bakersfield			Additional measures may be necessary to appease customer complaints related to construction activities such as noise reduction, additional restoration, etc. and sometimes customer				In order to avoid the need for excessively large amounts of CNG/LNG, compression was used to back-feed the line from a different transmission system and the valve for the GET busses was installed as planned in the
22	25820	T-051E-12, Line L-142N, Bakersfield	Ctr Vly	Customer Support	compensation.	\$80,000	N/A	Yes	mitigation.
23	25820	T-051D-12, Line L-142N, Bakersfield T-051E-12, Line L-142N, Bakersfield	Ctr Vly	Land Acquisition	Difficulty acquiring land due to a variety of complications (e.g. resistant land owners) that could result in schedule delays or increased cost (e.g. purchase land via eminent domain).	See T-051A/B/C-12	See T-051A/B/C- 12	Yes	A delay was experienced in acquiring land from the City of Bakersfield and Kern County to install new valves. The impact of this delay was captured in the risk register for tests A, B and C.
	05000	T-051D-12, Line L-142N, Bakersfield	G. 14		Potential rupture or leak during a hydrostatic test results in	4222		.,	A rupture was experienced during testing so an approximately 60 feet portion
24	25820	T-051E-12, Line L-142N, Bakersfield T-051D-12, Line L-142N, Bakersfield	Ctr Vly	Hydrostatic Test Rupture/Leak	Any changes to the project scope that were excluded from or occurred after IFB (e.g. additional sniff holes, expanded	\$330,000	6	Yes	of pipe was replaced and the line retested successfully.  The pipe at location M was not per design plan so changes were required
25	25820	T-051E-12, Line L-142N, Bakersfield	Ctr Vly	Changes After IFB	excavation, added replacement/test length, etc.).	\$18,000	N/A	Yes	resulting in additional costs.
26	30056	T-282A-13, Line L-172A, West Sacramento T-282B-13, Line L-172A, West Sacramento	North	Unknown Obstructions During Excavation	potentially delaying construction and resulting in additional cost.	\$100,000	N/A	No	Concrete and rock debris were encountered in the excavation. Two sack cement was also encountered requiring hand excavation.
27	30056	T-282A-13, Line L-172A, West Sacramento T-282B-13, Line L-172A, West Sacramento	North	Changes After IFB	Any changes to the project scope that were excluded from or occurred after IFB (e.g. additional sniff holes, expanded excavation, added replacement/test length, etc.).	\$125,000	N/A	No	Post IFB requests from engineering were received to remove additional pip and replace a valve.
28	30056	T-282A-13, Line L-172A, West Sacramento T-282B-13, Line L-172A, West Sacramento	North	Productivity Impacts	Potential impacts to contractor productivity caused by multiple issues which may result in contractor moving to another construction location on-site or other methods of mitigation.	\$250,000	N/A	No	Additional Base work was combined with the hydrotest work to reduce clearance requirements.
29	30056	T-282A-13, Line L-172A, West Sacramento T-282B-13, Line L-172A, West Sacramento	North	Unexpected Condition of Pipe, Valves or Fittings	Pipe, valves or fittings may be leaking or faulty requiring additional work to repair or replace them, including linear indications on the pipe.	\$300,000	6	No	The IFC plans did not accurately depict the excavation required for clearance. In addition, several valves required for clearance were leaking, requiring additional excavation, re-write of the clearance procedure and tripling contractor and T&R resources required for clearance.
30	30056	T-282A-13, Line L-172A, West Sacramento T-282B-13, Line L-172A, West Sacramento	North	Dewatering	A high water table is encountered resulting in unplanned dewatering costs and delays in construction.  Any changes to the project scope that were excluded from or	\$200,000	N/A	No	Ground water was encountered, requiring de-watering It was necessary to relocate AT&T and Modesto Irrigation Power Plant
31	25891	T-039A-12, Line DFM-1615-01, Modesto	Ctr Vly	Changes After IFB	occurred after IFB (e.g. additional sniff holes, expanded excavation, added replacement/test length, etc.).	\$45,000	N/A	No	existing utility poles. Work was completed on time, but at some additional costs.
32	25891	T-039A-12, Line DFM-1615-01, Modesto	Ctr Vly	Productivity Impacts	Potential impacts to contractor productivity caused by multiple issues which may result in contractor moving to another construction location on-site or other methods of mitigation.	\$237,300	36	No	This project could not begin until after a replacement project (R-003), test T 038-12 and a cross tie installation completed in order to ensure sufficient support for the Modesto Irrigation District. Delays were experienced on R-0 and T-038-12 thus delaying this project and resulting in cost increases.
					Potential interference with unmarked and unknown obstructions				A biohazard (medical needles) was encountered during excavation at locations A and C which will require additional work to safely remove,
33	28495	T-281B-13, Line L-191, Antioch	Bay	Unknown Obstructions During Excavation	found during the construction excavation or incorrect drawings potentially delaying construction and resulting in additional cost.	No cost impact	N/A	No	increasing project costs. PSC was contacted to handle the removal.  The project was planned with the assumption that the PG&E owned Baker
34	28495	T-281B-13, Line L-191, Antioch	Bay	Resource Availability	The availability of labor and materials necessary to execute the work may result in schedule and/or cost impacts.  Pipe, valves or fittings may be leaking or faulty requiring	\$40,000	N/A	No	tanks would be available, but they were not when needed so tanks were rented instead resulting in cost increases.  When excavating a wedding band (a band around the pipe) was encountere
35	28495	T-281B-13, Line L-191, Antioch	Bay	Unexpected Condition of Pipe, Valves or Fittings		\$55,000	N/A	No	and it was determined that it was necessary to remove it resulting in cost increases.

	New						Schedule		
Line#	PSRS	Project Description	Region	Risk	Description	Cost Impact (\$)	Impact (Days)	>10% Variand	ce Comments
					Pipe, valves or fittings may be leaking or faulty requiring				
20	20405	T 201D 12 Line L 101 Antionh	D	Unexpected Condition of Pipe,		Ć1 70E	N1 / A	N1 -	A 6" ball valve was found to be broken, requiring replacement which resulted
36	28495	T-281B-13, Line L-191, Antioch	Bay	Valves or Fittings	indications on the pipe.  Additional measures may be necessary to ensure the safety of	\$1,785	N/A	No	in cost increases.  An armed guard service was hired after a homeless man attempted to jump in the
37	28495	T-281B-13, Line L-191, Antioch	Bay	Safety and Security	personnel and the public around the job site.	\$23,240	N/A	No	bell hole and a drive-by shooting occurred down the street.
	20733	1 Zoro Io, Line L Ior, rindon	July	Juret, and Jecurity	Additional work or resources may be required to adequately	923,270	1,17	180	Self-fore and a wine by shooting occurred down the street.
					support customer loads during clearance and to meet potentially				Additional clearance support in the form of equipment and overtime hours were
38	28495	T-281B-13, Line L-191, Antioch	Bay	Clearance	tight clearance windows.	\$22,340	N/A	No	required to meet the clearance window.
					Unplanned permitting conditions, requirements and delays from				The city of Petaluma's request of night work resulted in cost increases, but did no
					various permitting agencies (e.g. limited working hours, limited				impact the schedule. We were limited because of other work already approved in
39	25833	TIM-065-12, Line L-021C, Penngrove	North	Permitting	access, delays in issuance, etc.).	\$124,700	12	No	the area.
40	25833	TIM OCE 12 Line L 021C Departure	North	Environmental/Chesies Impact	Potential delays in construction due to the presence of protected	\$4,860	N/A	No	It was necessary to relocate an isolation cap due to its proximity to a Red-Legged Frog known habitat.
40	23033	TIM-065-12, Line L-021C, Penngrove	North	Environmentary species impact	s or endangered species at the construction site.	<b>34,000</b>	IV/A	INO	Frog known nabitat.
					Difficulty acquiring land due to a variety of complications (e.g.				The city of Petaluma requested that we not stock pile soil from the excavation due
					resistant land owners) that could result in schedule delays or				to limited space on East Washington Street so it was necessary to off-haul the soil
41	25833	TIM-065-12, Line L-021C, Penngrove	North	Land Acquisition	increased cost (e.g. purchase land via eminent domain).	\$12,330	N/A	No	instead.
***************************************									The project was planned with the assumption that the PG&E owned Baker tanks
					The availability of labor and materials necessary to execute the				would be available, but they were not when needed so tanks were rented instead
42	25833	TIM-065-12, Line L-021C, Penngrove	North	Resource Availability	work may result in schedule and/or cost impacts.	\$61,800	N/A	No	resulting in cost increases.
					Detected in material and appearance of the control				
					Potential impacts to contractor productivity caused by multiple				It was necessary to install a bypass to support the regulator station Old Redwood
43	25833	TIM-065-12, Line L-021C, Penngrove	North	Productivity Impacts	issues which may result in contractor moving to another construction location on-site or other methods of mitigation.	\$27,602	N/A	No	Highway during clearance because CNG would not be able to sufficiently support the load and the load had increased due to colder weather.
43	23033	Tilvi-003-12, Line L-021C, Fernigiove	INUTELL	Froductivity impacts	construction location on-site of other methods of intigation.	<i>321,</i> 002	N/A	140	During pigging the valves on the bridle set at a MLV were left open so the pig
									became stuck just before the MLV. Another pig was pushed through which
									identified that there was a pressure difference that was catching the pig. The
									valves on the bridle set were then closed and pigging was completed. This
					Impacts resulting from contractor or sub-contractor negligence or				resulted in cost increases related to the delay and because this was during a
44	25833	TIM-065-12, Line L-021C, Penngrove	North	Errors and Omissions	oversight related to the work, product or property.	\$61,850	N/A	No	weekend.
					Pipe, valves or fittings may be leaking or faulty requiring				
				Unexpected Condition of Pipe,		4.2.2	the second second		
45	25833	TIM-065-12, Line L-021C, Penngrove	North	Valves or Fittings Field Conditions Differ from	indications on the pipe.  As-built drawings and/or GIS may not match what is encountered	\$1,940	N/A	No	A blow down flange was found to be damaged, requiring replacement.
46	31386	T-331B-14, Line DFM-1501-01, Yuba City	North	Expected Conditions	in the field.	\$100,000	N/A	Yes	An additional TAP was identified as necessary.
40	31300	1 331D 14, Line DIWI 1301 01, Tuba City	NOTER	Expected Conditions	Additional work or resources may be required to adequately	\$100,000	WA.	163	An additional Tail was definited as necessary.
					support customer loads during clearance and to meet potentially				A delay was experienced as a result of tight clearance windows. Adjusting of the
47	31386	T-331B-14, Line DFM-1501-01, Yuba City	North	Clearance	tight clearance windows.	\$800,000	64	Yes	schedule was necessary in order to find a suitable clearance window.
									A direct leak was detected during the leak check test resulting in cost impacts to
									repair the section of pipe and a minor delay. Despite this issue, this project should
					Potential rupture or leak during a hydrostatic test results in	4	_		be within budget. It was a small nitrogen test constructed by GC so the initial
48	31372	T-337-14, Line DFM-1603-03, Manteca	Ctr Vly	Hydrostatic Test Rupture/Leak	increased cost.	\$15,000	1	No	estimate appears to have been higher than necessary.
					Difficulty acquiring land due to a variety of complications (e.g.				Since a private landowner did not agree to grant access, it was necessary to install
		T-272A-13, Line DFM-7223-01, Turlock			resistant land owners) that could result in schedule delays or				the valve lot in the sidewalk requiring street closure which resulted in additional
49	27651	T-272B-13, Line DFM-7223-01, Turlock	Ctr Vly	Land Acquisition	increased cost (e.g. purchase land via eminent domain).	\$500	N/A	Yes	traffic control costs.
					Additional measures may be necessary to appease customer				
					complaints related to construction activities such as noise				
		T-272A-13, Line DFM-7223-01, Turlock			reduction, additional restoration, etc. and sometimes customer				The test was split in order to reduce the need to support a DREG. Only a minor
50	27651	T-272B-13, Line DFM-7223-01, Turlock	Ctr Vly	Customer Support	compensation.	\$200,000	N/A	Yes	cost impact was incurred mitigating a potentially large impact.
					Any changes to the project scope that were excluded from or				Due to unknown pipe depth it was not determined whether one of the test heads
		T-272A-13, Line DFM-7223-01, Turlock			occurred after IFB (e.g. additional sniff holes, expanded				could be below or above ground. It was necessary to have the test head above
51	27651	T-272B-13, Line DFM-7223-01, Turlock	Ctr Vly	Changes After IFB	excavation, added replacement/test length, etc.).	\$30,000	N/A	Yes	ground which required additional traffic control.
					Potential impacts to contractor productivity caused by multiple				
		T-272A-13, Line DFM-7223-01, Turlock			issues which may result in contractor moving to another				A schedule delay and related costs were experienced while waiting on the results
52	27651	T-272B-13, Line DFM-7223-01, Turlock	Ctr Vly	Productivity Impacts	construction location on-site or other methods of mitigation.	\$100,000	5	Yes	of soil sampling due to issues at the lab.
				······································					

	New						Schedule		100
Line #	PSRS	Project Description	Region	Risk	Description	Cost Impact (\$)	Impact (Days)	>10% Variance	2 Comments
53	27651	T-272A-13, Line DFM-7223-01, Turlock T-272B-13, Line DFM-7223-01, Turlock	Ctr Vly	Hydrostatic Test Rupture/Leak	Potential rupture or leak during a hydrostatic test results in increased cost.	\$300,000	7	Yes	The pipe was found to be leaking during leak check resulting in additional costs to locate and replace. Praxair tracer gas was used to locate the leak. Also one site was excavated per the engineer's request, but the leak was not found there. The tracer gas revealed the leak location. Corrosion was found at the leak site and all corroded pipe replaced.
54 <b>5</b> 5	27651 27651	T-272A-13, Line DFM-7223-01, Turlock T-272B-13, Line DFM-7223-01, Turlock T-272A-13, Line DFM-7223-01, Turlock T-272B-13, Line DFM-7223-01, Turlock	Ctr Vly Ctr Vly		Potential rupture or leak during a hydrostatic test results in increased cost.  Pipe, valves or fittings may be leaking or faulty requiring additional work to repair or replace them, including linear indications on the pipe.	\$350,000	9	Yes Yes	A second leak in the line was found 9 days after the first while ramping to spike pressure. Praxair tracer gas was again used successfully to locate the leak. Corrosion was found at the leak site and all corroded pipe replaced.  An engineering investigation conducted during the second leak resulted in a decision to replace 30 ft of pipe.
56	31108	T-303B-14, Line L-186, Dos Palos	Ctr Vly	Productivity Impacts	Potential impacts to contractor productivity caused by multiple issues which may result in contractor moving to another construction location on-site or other methods of mitigation.	\$84,000	N/A	Yes	A cotton field was used for staging which had the potential to increase project costs. LNG piping was installed which avoided interference with the cotton field land owner's business mitigating a potentially greater cost impact.
									An in vista inspection using an ultrasonic tool was conducted of the line in T-303B-14 and T-304-14 which identified numerous anomalies (laminations, dents, etc.) which will delay both projects while these anomalies are addressed and result in
57	31108	T-303B-14, Line L-186, Dos Palos	Ctr VIv	Valves or Fittings	Any changes to the project scope that were excluded from or occurred after IFB (e.g. additional sniff holes, expanded	\$480,600	18	Yes Yes	significant cost increases.  After initial planning, this project was selected as a pilot project to test a new inspection tool called In Vista inspection by Quest. As a result, additional labor and material costs were incurred.
58	31108	T-303B-14, Line L-186, Dos Palos	Ctr Vly	Changes After IFB	excavation, added replacement/test length, etc.).  Additional measures may be necessary to ensure the safety of	\$350,000	12	res	and material costs were incurred.
59	31108	T-303B-14, Line L-186, Dos Palos	Ctr Vly	Safety and Security Field Conditions Differ from	personnel and the public around the job site.  As-built drawings and/or GIS may not match what is encountered	\$52,000	N/A	Yes	K rails were required in order to protect the CNG/LNG equipment.  A PCF was encountered that was not identified on the drawings requiring
60	30531	T-284-13, Line DFM-1815-02, Monterey	Ctr Cst	Expected Conditions	in the field.	\$26,759	N/A	No	additional work.
61	25790	R-069 L-050A TRANSFER 5.09MI MP 2.55- 7.60 PH1	North	Productivity Impacts	Potential impacts to contractor productivity caused by multiple issues which may result in contractor moving to another construction location on-site or other methods of mitigation.	N/A	12	No	Two out of the five clearances were each delayed a week due to delays on other projects or emergent work.
62	25790	R-069 L-050A TRANSFER 5.09MI MP 2.55- 7.60 PH1	North	Changes After IFB	Any changes to the project scope that were excluded from or occurred after IFB (e.g. additional sniff holes, expanded excavation, added replacement/test length, etc.).	N/A	12	No	One HPR was not mapped so additional time was required to plan then do the transfer once it was located. This HPR was part of the Gas Distribution portion of work therefore any cost impacts were covered by that budget.
63	31295	R-122 DFM-1306-01 REPL 0.01MI MP 1.48- 1.48 PH1	North	Unknown Obstructions During Excavation	Potential interference with unmarked and unknown obstructions found during the construction excavation or incorrect drawings potentially delaying construction and resulting in additional cost.	\$4,000	1	No	A non-PG&E unknown corrugated pipe that was abandoned was encountered so the pipe was removed.
64	31295	R-122 DFM-1306-01 REPL 0.01MI MP 1.48- 1.48 PH1	North	Productivity Impacts	Potential impacts to contractor productivity caused by multiple issues which may result in contractor moving to another construction location on-site or other methods of mitigation.	N/A	6	No	This is a GC constructed job and the crew had an emergency project come up that pulled them away from this one resulting in a delay.
65	27890	R-132 DFM-7222-01 REPL 10.23MI MP 0.99- 11.16 PH1	CtrVly	Permitting	Unplanned permitting conditions, requirements and delays from various permitting agencies (e.g. limited working hours, limited access, delays in issuance, etc.).  Pipe, valves or fittings may be leaking or faulty requiring	\$350,000	N/A	No	An agreement was made to pay the City of Hughson (\$1/squ. ft.) to repave the road after the project completes. As site restoration was set to begin, the city requested that all 5 lanes of the road be repaved instead of just one. Negotiations are still underway as of 5-Dec-13. The cost reflects an estimate of a potential negotiated outcome.
66	27890	R-132 DFM-7222-01 REPL 10.23MI MP 0.99- 11.16 PH1	Ctr Vly	Unexpected Condition of Pipe, Valves or Fittings	additional work to repair or replace them, including linear indications on the pipe.	\$17,000	2	No	One 4" valve was delivered and found to be defective when tested so another had to be acquired and tested. Costs were incurred to test twice.

	New						Schedule		
Line#	PSRS	Project Description	Region	Risk	Description	Cost Impact (\$)	Impact (Days)	>10% Varianc	e Comments
67	27890	R-132 DFM-7222-01 REPL 10.23MI MP 0.99- 11.16 PH1	<b>Ctr Vly</b>	Permitting	Unplanned permitting conditions, requirements and delays from various permitting agencies (e.g. limited working hours, limited access, delays in issuance, etc.).	\$1,100,000	N/A	No	Despite extensive early outreach with Stanislaus County to receive buy-in on the traffic control plan (full road closures with detours) they later changed their mind about the traffic control plan, requiring that one lane of traffic remain open during construction. Also, in lieu of trench cut fees, the county required overlay of half of the road where trenches were located. After further negotiations, an agreement was reached that PG&E will pay the county to pave their detour roads prior to construction start allowing for full road closures.
					Potential interference with unmarked and unknown obstructions				Potholing identified 117 unmarked/unknown utilities so redesign was necessary. Construction methods were changed to shallow HDDs which helped mitigate cost
68	27890	R-132 DFM-7222-01 REPL 10.23MI MP 0.99- 11.16 PH1	Ctr Vly	Unknown Obstructions During Excavation	found during the construction excavation or incorrect drawings potentially delaying construction and resulting in additional cost.	\$500,000	N/A	No	(down from estimated \$2 million) and schedule impacts (down from estimated 4 wks).
Do	27890	11.10 PM1	Cu viy	EXCAVACION	potentially delaying construction and resulting in additional cost.	\$500,000	IV/A	INO	Additional traffic control has been necessary to ensure public safety to make it
		R-132 DFM-7222-01 REPL 10.23MI MP 0.99-	and the second		Additional measures may be necessary to ensure the safety of	Maria Cara Cara Cara Cara Cara Cara Cara	minimum minimum		clear that the road is closed, including during non-working hours impacting
69	27890	11.16 PH1	Ctr Vly	Safety and Security	personnel and the public around the job site.	\$500,000	N/A	No	project costs.
70	27890	R-132 DFM-7222-01 REPL 10.23MI MP 0.99- 11.16 PH1	Ctr Vly	Unknown Obstructions During Excavation	Potential interference with unmarked and unknown obstructions found during the construction excavation or incorrect drawings potentially delaying construction and resulting in additional cost.	\$250,000	6	No	It was necessary to select a new tie-in location on the west side of Whitmore Ave due to conflicts with other existing utilities.
71	26006	R-011 L-118A REPL 8.11MI MP 5.62-12.55 PH1	Ctr Vly	Permitting	Unplanned permitting conditions, requirements and delays from various permitting agencies (e.g. limited working hours, limited access, delays in issuance, etc.).	\$200,000	12	No	Significant issues were experienced with the city of Fresno regarding horizontal/vertical separation requirements which caused delays particularly as a result of the inability to acquire a particular easement. During construction the city identified an intersection where work was taking place as not covered by the original encroachment permit. Plans were to cut, but the city preferred a bore. As a compromise for cutting, additional restoration measures were made.
		R-011 L-118A REPL 8.11MI MP 5.62-12.55			Difficulty acquiring land due to a variety of complications (e.g. resistant land owners) that could result in schedule delays or				Land was acquired at higher costs than anticipated at a specific property where a valve lot was planned was not acquired so it was necessary to relocate 4000 ft of
72	26006	PH1  R-011 L-118A REPL 8.11MI MP 5.62-12.55	Ctr Vly	Land Acquisition	increased cost (e.g. purchase land via eminent domain).  Any changes to the project scope that were excluded from or occurred after IFB (e.g. additional sniff holes, expanded	\$50,000	24	No	pipe that would have been on private property, but now will be in franchise.  Station engineering conducted a more in depth review of station drawings and identified additional materials needed which added to project costs and took time
73	26006	PH1	Ctr Vly	Changes After IFB	excavation, added replacement/test length, etc.). Any changes to the project scope that were excluded from or	\$67,000	6	No	to acquire.
7.1	26006	R-011 L-118A REPL 8.11MI MP 5.62-12.55	C+~ \ /\	Changes After ICD	occurred after IFB (e.g. additional sniff holes, expanded excavation, added replacement/test length, etc.).	¢500.000	10	No	It was necessary to move the line into franchise so re-design was required,
74	20000	PH1 R-011 L-118A REPL 8.11MI MP 5.62-12.55	Ctr Vly	Changes After IFB	Poor soil conditions may result in the need for off haul of	\$500,000	18	No	increasing project costs.  Unsuitable bedding sand material resulted in cost increases to haul it off and
75	26006	PH1	Ctr Vly	Poor Soil	unsuitable soil and import of suitable soil.	\$711,000	12	No	acquire import sand from the quarry.
76	26006	R-011 L-118A REPL 8.11MI MP 5.62-12.55 PH1	Ctr Vly	Unstable/Weak Soil	Unstable soils may require additional shoring or other measures which may cause delays and increase in costs to implement.	\$2,600,000	30	No	Significant impacts were realized due to sugar sands and hard pans soils on the last 10,000 ft of work, increasing project costs and slowing production rates. Soil samples were taken to gain a better understanding of the conditions prior to construction start so plans could be made accordingly. A tackifier was applied, but without success. Boring was also explored, but the sand was not dense enough and if it were then it would have been possible to dig through.
					Potential construction delays and resulting additional costs due				
		R-134 L-114_2 REPL 3.59MI MP 12.68-16.54			to rain days. Potential rain interaction with species (e.g. CTS				
77	27979	PH1	Bay	Weather Impacts	breading migration) delaying construction and increasing cost.	\$50,000	1	No	Additional rock was purchased due to a rain event.
78	27979	R-134 L-114_2 REPL 3.59MI MP 12.68-16.54 PH1	Bay	Unstable/Weak Soil	Unstable soils may require additional shoring or other measures which may cause delays and increase in costs to implement.	\$150,000	6	No	Peat gravel was encountered while digging, resulting in increased costs to handle.
70	27979	R-134 L-114_2 REPL 3.59MI MP 12.68-16.54 PH1	Dov	Mercury Cleaning - Pipe	Clashing Ha from hiping associated with asset retirement	\$400,000	N/A	No	Cleaning costs were higher than anticipated.
79		R-134 L-114_2 REPL 3.59MI MP 12.68-16.54	Bay	Replacement	Cleaning Hg from piping associated with asset retirement.  If work is found to be below standards, time may be lost and			IVU	NDE Contractor Inspection method requires rework. Re-inspection was necessary due to inspection not to code. NOTE: The cost impact of \$4,800,000 was captured
80	27979	PH1	Bay	Quality	costs incurred to resolve the situation.	N/A	96	No	in a separate expense account.

	New			0.77		6 - 1 ( 1/6)	Schedule	100/1/	
Line #	PSRS	Project Description  R-134 L-114_2 REPL 3.59MI MP 12.68-16.54	Region	Risk	Description  Potential construction delays and resulting additional costs due to rain days. Potential rain interaction with species (e.g. CTS	Cost Impact (\$)	Impact (Days)	>10% Variand	Comments  Due to other delays, the slurry seal will be conducted in 2014 so that it can be
81	27979	PH1	Вау	Weather Impacts	breading migration) delaying construction and increasing cost.	\$50,000	N/A	No	warrantied during better weather.
82	23769	R-105 DFM-1815-02 REPL 0.45MI MP 18.76- 19.24 PH1	Ctr Cst	Unknown Obstructions During Excavation	Potential interference with unmarked and unknown obstructions found during the construction excavation or incorrect drawings potentially delaying construction and resulting in additional cost.	\$35,000	3	Yes	Old city duct banks and pavement (i.e. city infrastructure) were encountered requiring additional work to work around.
83	23769	R-105 DFM-1815-02 REPL 0.45MI MP 18.76- 19.24 PH1	Ctr Cst	Productivity Impacts	Potential impacts to contractor productivity caused by multiple issues which may result in contractor moving to another construction location on-site or other methods of mitigation.	\$60,000	4	Yes	Due to sequenced work, a hydrotest required completion before this project could begin. Since a delay was experienced on the test project, a delay was experienced on this one also.
84	23631	V-040 Valve Auto - Walnut Ave, 1V, Ph. 1	Bay	Changes After IFB	Any changes to the project scope that were excluded from or occurred after IFB (e.g. additional sniff holes, expanded excavation, added replacement/test length, etc.).	\$85,000	12	No	It was necessary to remove 4 major Redwood trees because the roots were intruding on the gas lines which resulted in increased project costs.
85	23631	V-040 Valve Auto - Walnut Ave, 1V, Ph. 1	Bay	Changes After IFB	Any changes to the project scope that were excluded from or occurred after IFB (e.g. additional sniff holes, expanded excavation, added replacement/test length, etc.).	\$50,000	N/A	No	The fencing around the station required replacement from metal to wood due to potential overhead transmission fault current issues.
86	23651	V-052 Valve Auto - 51St Avenue, 1V, Ph. 1	Bay	Safety and Security	Additional measures may be necessary to ensure the safety of personnel and the public around the job site.	\$20,000	N/A	No	A satellite site was acquired with a security guard present; however, the satellite site was only used for a week so a PG&E service center was used which costs were incurred to move to.  Redesign of the valve grade box from subsurface to above ground was necessary
87	23655	V-053 Valve Auto - 4th & Jefferson, 1V, Ph. 1	Bay	Unknown Obstructions During Excavation	potentially delaying construction and resulting in additional cost.	\$50,000	24	No	because a BART communication bank was encountered which BART did not notify us of. This eliminated the need to potentially relocate a fence as previously planned.
88	23655	V-053 Valve Auto - 4th & Jefferson, 1V, Ph. 1	Bav	Safety and Security	Additional measures may be necessary to ensure the safety of personnel and the public around the job site.	\$20,000	N/A	No	There was 24 hour security on the site at additional cost due to issues experienced on previous projects in the area.
89	23602	V-015 Valve Auto - Edgewood, 6V, Ph. 1	Ctr <b>C</b> st	Productivity Impacts	Potential impacts to contractor productivity caused by multiple issues which may result in contractor moving to another construction location on-site or other methods of mitigation.	\$3,680	1	No	A miscommunication resulted in potholing being done in the incorrect location so it had to be re-done.
90	23602	V-015 Valve Auto - Edgewood, 6V, Ph. 1	Ctr Cst	Clearance	Additional work or resources may be required to adequately support customer loads during clearance and to meet potentially tight clearance windows.	\$6,200	2	No	The parameters of the clearance grew so the blow down time was longer than originally anticipated resulting in additional construction crew labor costs.
91	23602	V-015 Valve Auto - Edgewood, 6V, Ph. 1	Ctr Cst	Productivity Impacts	Potential impacts to contractor productivity caused by multiple issues which may result in contractor moving to another construction location on-site or other methods of mitigation.	\$39,000	3	No	The 30" pipe delivered to the Edgewood site was X-65, not X-60 like the Bill of Materials had specified. This error had not been identified until after two (2) each 30" welds had been completed using the incorrect welding procedure. These welds had to be subsequently cut out and the joints re-beveled. New weld procedures had to be generated, uploaded, and brought to the welders before any additional welding could commence. Requesting evaluation on PCO for time spent on prep work, welding the X-65 pipe, the regroup time and the cutout of (2 each 30" welds.
92	23602	V-015 Valve Auto - Edgewood, 6V, Ph. 1	Ctr Cst	Support for Other Work Teams	Unplanned support (equipment or labor) was provided to other teams such as GC, CNG, or LNG because they did not have sufficient resources available at the time that they were needed.	\$44,000	N/A	No	Support in the form of personnel (monitors) was provided to air movers during clearance.
93	23602	V-015 Valve Auto - Edgewood, 6V, Ph. 1	Ctr Est	Productivity Impacts	Potential impacts to contractor productivity caused by multiple issues which may result in contractor moving to another construction location on-site or other methods of mitigation.	\$7,755	2	No	Other projects (Base) in the vicinity were using this site as a blow down location so welding could not occur while those lines were blown down delaying this project and resulting in related cost increases.
94	23602	V-015 Valve Auto - Edgewood, 6V, Ph. 1	Ctr Cst	Errors and Omissions	Impacts resulting from contractor or sub-contractor negligence or oversight related to the work, product or property.  Any changes to the project scope that were excluded from or	\$54,000	10	No	Aspects of the design were identified as requiring additonal update.  Design changes were made to the fence design after construction commenced.
95	23602	V-015 Valve Auto - Edgewood, 6V, Ph. 1	Ctr Cst	Changes After IFB	occurred after IFB (e.g. additional sniff holes, expanded excavation, added replacement/test length, etc.).	\$17,000	N/A	No	Retaining wall attachments were changed and the maintenance access gates were revised.

	New						Schedule		
ine#	PSRS	Project Description	Region	Risk	Description	Cost Impact (\$)	Impact (Days)	>10% Varian	ce Comments
					Potential impacts to contractor productivity caused by multiple				
					issues which may result in contractor moving to another				Due to delays caused by other issues, the contractor is also being reimbursed for
96	23602	V-015 Valve Auto - Edgewood, 6V, Ph. 1	Ctr Cst	Productivity Impacts	construction location on-site or other methods of mitigation.	\$264,000	N/A	No	overhead costs.
					Any changes to the project scope that were excluded from or				Design was done with plans to reuse a building currently on site for control
					occurred after IFB (e.g. additional sniff holes, expanded				equipment; however, asbestos was found in the building so an alternate plan w
7	28282	V-031B Valve Auto Delta Fair, 1V, Ph. 1	Bay	Changes After IFB	excavation, added replacement/test length, etc.).	\$20,000	N/A	Yes	devised.
									laking the clearance on the SP-5 line was expected to be challenging due to
									issues experienced on other projects. Also a minimum inventory verification
					Additional work or resources may be required to adequately				was completed which delayed clearance. In addition, due to scheduling
					support customer loads during clearance and to meet potentially				conflicts with other work, that was higher priority, this project experienced
98	28282	V-031B Valve Auto Delta Fair, 1V, Ph. 1	Bay	Clearance	tight clearance windows.	\$100,000	N/A	Yes	delays.
				Field Conditions Differ from	As-built drawings and/or GIS may not match what is encountered				Pipe depth and other location specifications were not as expected resulting
9	28282	V-031B Valve Auto Delta Fair, 1V, Ph. 1	Bay	Expected Conditions	in the field.	\$100,000	36	Yes	costs to adjust the design/work.
		V-030 Valve Auto - Antioch Terminal, 5V, Ph.			If work is found to be below standards, time may be lost and				Delays were experienced related to the quality of engineering. The quality
00	30014	1	Bay	Quality	costs incurred to resolve the situation.	\$120,000	36	Yes	issues could not be resolved so a new contractor was selected.
					Additional work or resources may be required to adequately				Due to a delay on an earlier consecutive replacement project on L-114, this
		V-030 Valve Auto - Antioch Terminal, 5V, Ph.			support customer loads during clearance and to meet potentially				project was delayed in taking clearance because L-303 could not be out at t
01	30014	1	Bay	Clearance	tight clearance windows.	\$40,000	24	Yes	same time as L-114.
		V-030 Valve Auto - Antioch Terminal, 5V, Ph.		Field Conditions Differ from	As-built drawings and/or GIS may not match what is encountered				
02	30014	1	Bay	Expected Conditions	in the field.	\$70,000	N/A	Yes	Conditions were different than expected, resulting in additional work.
									Clearance delays and poor planning impacted the project cost and schedule
					Additional work or resources may be required to adequately				Due to the delays in taking clearance, CNG and additional sniff hole location
		V-030 Valve Auto - Antioch Terminal, 5V, Ph.			support customer loads during clearance and to meet potentially				were required because of the colder weather. This was not identified as a
03	30014	1	Bay	Clearance	tight clearance windows.	\$150,000	N/A	Yes	possibility.
********	***************************************		*************************		Additional work or resources may be required to adequately		***************************************		
		V-030 Valve Auto - Antioch Terminal, 5V, Ph.			support customer loads during clearance and to meet potentially				V-201 and V-9.03 were not commissioned as scheduled with the rest of the
L04	30014	1	Bay	Clearance	tight clearance windows.	\$50,000	12	Yes	scope due to clearance conflicts with other projects.
***************************************							in the second	Programme and the second	
					Potential impacts to contractor productivity caused by multiple				It was necessary to complete R-23 on L-131 and Livermore and Airway Stati
					issues which may result in contractor moving to another				Rebuild (Base) projects prior to this project. As a result of delays on those
.05	23635	V-045 Valve Auto - East Airway, 3V, Ph. 1	Ctr Cst	Productivity Impacts	construction location on-site or other methods of mitigation.	N/A	64	No	projects, this project was delayed also.
ice and considerate the con-	nanonnimina kaje kelije keliji e kelije		NOCK CONTRACTOR CONTRACTOR CONTRACTOR		Unplanned permitting conditions, requirements and delays from				
					various permitting agencies (e.g. limited working hours, limited				A delay was experienced waiting for the Caltrans permit despite early and
.06	27532	V-031A Valve Auto - California, 1V, Ph. 1	Bay	Permitting	access, delays in issuance, etc.).	N/A	6	No	continued communication.
				Field Conditions Differ from	As-built drawings and/or GIS may not match what is encountered				A PCF stopple was not where the as-builts identified it to be so the design h
.07	27532	V-031A Valve Auto - California, 1V, Ph. 1	Bay	Expected Conditions	in the field.	\$35,000	N/A	No	to be adjusted resulting in a cost increase.
			ikishisooonoo oo	Field Conditions Differ from	As-built drawings and/or GIS may not match what is encountered			***************************************	ikikisimmenikisi kirikisimmenen menen menen kirimmisi di kirimmen kirimmen menen menen menen menen menen menen Menen menen me
08	27532	V-031A Valve Auto - California, 1V, Ph. 1	Bay	Expected Conditions	in the field.	\$65,000	N/A	No	
**********************		Programme and the programme and the second s							
									One landowner required that we remove the retired line in order to grant u
									access to his land. This requires additional permitting, etc. and will result in
									more cost increases and delays in site restoration. This delay will also result
									additional repaving costs because the San Joaquin County does not conside
					Difficulty acquiring land due to a variety of complications (e.g.				any paving completed between Nov-April as permanent so we will repave
		R-007 L-108 1A REPL 2.19MI MP 37.14-38.17			resistant land owners) that could result in schedule delays or				after that time frame. Additional costs may still be incurred related to the
09	27594	PH1	Ctr Vly	Land Acquisition	increased cost (e.g. purchase land via eminent domain).	\$927,000	36	No	removal of the retired line and repaving.
		**************************************		25.77.34	The second secon	* - * * * * * * * * * * * * * * * * * *		7 7.77	· · · · · · · · · · ·
									The city of Tracy required removal of the retired line in order to grant the
									permit which requires an additional trench because replace in place was no
					Unplanned permitting conditions, requirements and delays from				feasible. This resulted and cost increases and a delay while negotiating with
		R-148 DFM-1617-01 REPL 0.85MI MP 0.82-			various permitting agencies (e.g. limited working hours, limited				the city and exploring mitigation options such as replace in place. Nine days
10	23682	1.26 PH1	Ctr VIv	Permitting	access, delays in issuance, etc.).	\$40,000	18	No	were required for redesign and additional construction time each.
						T,		110	As a result of the permitting delay, the project was scheduled to tie-in in
									December. A delay and associated costs were incurred due to cold weather
					Potential construction delays and resulting additional costs due				which resulted in an increased customer load and would have required
		R-148 DFM-1617-01 REPL 0.85MI MP 0.82-			to rain days. Potential rain interaction with species (e.g. CTS				significantly more CNG. Accepting the delay was more reasonable and cost
.11	23682	1.26 PH1	Ctr Vly	Weather Impacts	breading migration) delaying construction and increasing cost.	\$30,000	2	No	effective.
<b>L</b>	<b>43004</b>	1,20 ГП1	LU VIY	weather impacts	or earning migration) delaying construction and increasing cost.	シンしょししし	L	INU	en cettve:

	New						6-31-310	Schedule	100/1/	
ne#	PSRS	Pro	ject Description	Region	Risk	Description Unplanned permitting conditions, requirements and delays from	Cost Impact (\$)	Impact (Days) >	10% Variano	e Comments
										Cignificant delays were experienced in acquiring normits from the CERLIC on
110	24025	10001 100 140	24.05.20.20.11000.405.011.4	61 . 6 . 1	December 1	various permitting agencies (e.g. limited working hours, limited	A) / A	70	<b>V</b>	Significant delays were experienced in acquiring permits from the SFPUC on
112	24025	1-006 L-132 MP	31.96-38.39 UPGRADE PH-1	Ctr Cst	Permitting	access, delays in issuance, etc.). Unplanned permitting conditions, requirements and delays from	N/A	72	Yes	this and other projects.  The necessity to apply for an additional permit with Caltrans was identified
112	34035	100C L 122 MAD	24 0C 20 20 UDCDADE DU 4	Cha Cat	Describerous	various permitting agencies (e.g. limited working hours, limited	ć100.000	e c	V	and since Caltrans permits cannot be expedited a delay was experienced and
113	24025	1-006 L-132 MP	31.96-38.39 UPGRADE PH-1	Ctr Cst	Permitting	access, delays in issuance, etc.).	\$100,000	66	Yes	additional clearance required.  It was necessary to install facilities outside of the permitted area due to
										design changes after the permitting process began so an additional
						Unplanned permitting conditions, requirements and delays from				application was submitted to the SFPUC which has been historically long lea
						various permitting agencies (e.g. limited working hours, limited				at issuing permits. Commissioning was delayed one month waiting for the
114	23603	V-016 Valve Au	to - Crystal Springs, 4V, Ph. 1	Ctr Cst	Permitting	access, delays in issuance, etc.).	N/A	Α	No	SFPUC approval of the updated permit.
	23003	V OIO VUIVE / IU	C, ystar Springs, 4V, Til. 1	Cti Cst	T C ; intering	decess, detays in issuance, etc.,	14/11		140	31 oc approvar of the appared permit.
						Potential impacts to contractor productivity caused by multiple				
						issues which may result in contractor moving to another				Approximately 18" of additional cut was necessary resulting in increased
.15	23603	V-016 Valve Au	to - Crystal Springs, 4V, Ph. 1	Ctr Est	Productivity Impacts	construction location on-site or other methods of mitigation.	\$137,800	1	No	project costs.
	***************************************			***************************************		Pipe, valves or fittings may be leaking or faulty requiring	***************************************	***************************************	***************************************	
					Unexpected Condition of Pipe,	additional work to repair or replace them, including linear				Removal and replacement of coating on 2 lines feeding into the station was
.16	23603	V-016 Valve Au	to - Crystal Springs, 4V, Ph. 1	Ctr Cst	Valves or Fittings	indications on the pipe.	\$40,000	1	No	required resulting in cost increases.
						Any changes to the project scope that were excluded from or				Studs were replaced and bleed valves were increased from 3/4" to 2" on the
						occurred after IFB (e.g. additional sniff holes, expanded				launcher/receiver because they were not accepted by the local district that
L17	23603	V-016 Valve Au	to - Crystal Springs, 4V, Ph. 1	Ctr Cst	Changes After IFB	excavation, added replacement/test length, etc.).	\$10,000	N/A	No	would be operating them.
						Pipe, valves or fittings may be leaking or faulty requiring				
					Unexpected Condition of Pipe,	additional work to repair or replace them, including linear				There was an existing culvert at the entrance to the valve lot which had
118	23603	V-016 Valve Au	to - Crystal Springs, 4V, Ph. 1	Ctr Cst	Valves or Fittings	indications on the pipe.	\$7,300	N/A	No	collapsed so it was necessary to replace for grading purposes.
						Additional work or resources may be required to adequately				
						support customer loads during clearance and to meet potentially	unifolis automobile			Additional labor was required for spotting because of operating restrictions
119	23603	V-016 Valve Au	to - Crystal Springs, 4V, Ph. 1	Ctr Cst	Clearance	tight clearance windows.	\$62,000	N/A	No	on L-101 and L-109 due to L-147 shut down.
						Described to the second of the				
				Potential impacts to contractor productivity caused by multiple				Delays were experienced in getting telecommunications work completed ar		
						issues which may result in contractor moving to another	440.000			tower positioning due to labor availability. This issue will be explored furthe
20	23603	V-016 Valve Au	to - Crystal Springs, 4V, Ph. 1	Ctr Cst	Productivity Impacts	construction location on-site or other methods of mitigation.	\$20,000	1	No	at the program level to avoid occurrences in the future.  Three existing valves were found to be leaking during commissioning so
										additional work will be required post commissioning. The cost recorded he
						Pipe, valves or fittings may be leaking or faulty requiring				is an estimate and could vary when the work completes. The current plan is
		V-061 Valve Au	to - Sac Gas Load Center, 4V,		Unexpected Condition of Pipe,	additional work to repair or replace them, including linear				repair the valves, but if any require replacement the cost could be \$200,00
121	23675	V OOT VAIVE Au	Ph. 1	Ctr Cst		indications on the pipe.	\$50,000	N/A	No	\$1,700,000.
121	23073		FII. I	Cti Cst	valves of Fittings	Unplanned permitting conditions, requirements and delays from	ουοιου	IV/A	1110	31,700,000:
						various permitting agencies (e.g. limited working hours, limited				
122	31109	T-304-14	, Line L-186, Dos Palos	Ctr Vly	Permitting	access, delays in issuance, etc.).	N/A	2	No	Despite early application, a delay was experienced in receiving a permit.
NAMES OF THE OWNERS OF THE OWNER,								THE REAL PROPERTY OF THE PROPE		
										As a result of the pilot use of the In Vista inspection tool, various pipe
										anomalies (laminations, dents, etc.) were identified, requiring repair which
						Pipe, valves or fittings may be leaking or faulty requiring				resulted in cost increases and a schedule delay. Identification of these
					Unexpected Condition of Pipe,	additional work to repair or replace them, including linear				anomalies using this tool was a mitigation effort to avoid leaks and/or a
.23	31109	T-304-14	, Line L-186, Dos Palos	Ctr Vly	Valves or Fittings	indications on the pipe.	\$1,058,000	18	No	rupture during hydrotest and ensures greater safety of the line.
~~~~~						Any changes to the project scope that were excluded from or		<u></u>		After initial planning, this project was selected as a pilot project to test a ne
						occurred after IFB (e.g. additional sniff holes, expanded				inspection tool called In Vista inspection by Quest. As a result, additional
124	31109	T-304-14	, Line L-186, Dos Palos	Ctr Vly	Changes After IFB	excavation, added replacement/test length, etc.).	\$438,497	12	No	labor and material costs were incurred.
						Additional measures may be necessary to ensure the safety of				It was identified that K rails should be installed in order to protect the
125	31109	T-304-14	, Line L-186, Dos Palos	Ctr Vly	Safety and Security	personnel and the public around the job site.	\$12,466	N/A	No	CNG/LNG equipment.
						Undersed securities and litigate security and delay for the				The Air District deleved the start of annualized due to the start of annualized
						Unplanned permitting conditions, requirements and delays from				The Air District delayed the start of construction due to time taken to review
	24017	10021 2000 64	D 200 2E1 0 HDCDADE DU 1	Ctrillia	Dormitting	various permitting agencies (e.g. limited working hours, limited	¢200.000	24	N/~	and approve the permit. Dust control requirements required numerous (6)
26	24017	1-003 L-300B M	P 299-351.8 UPGRADE PH-1	Ctr Vly	Permitting	access, delays in issuance, etc.).	\$200,000	24	No	water trucks and covering of soil piles which resulted in cost increases.
126	2-1017									A survey identified as necessary for the Blunt Nosed Leopard Lizard delayed
126	24017									
26	24017									the start of construction for clearance 4. Additional delay was then
.26	2-1017									
126						Potential delays in construction due to the presence of protected				the start of construction for clearance 4. Additional delay was then experienced because the Department of Fish and Wildlife observed burrowing holes of the Blunt Nose Leopard Lizard so exclusion fencing need

Line#	New PSRS	Project Description	Region	Risk	Description	Cost Impact (\$)	Schedule Impact (Davs)	>10% Variance	Comments
128	24017	I-003 L-300B MP 299-351.8 UPGRADE PH-1	ctr Vly	Changes After IFB	Any changes to the project scope that were excluded from or occurred after IFB (e.g. design changes, expanded excavation, added replacement/test length, etc.).	\$35,000	impact (Days)	No	A design change of the concrete thrust blocks for the blow-offs and the concrete supports that included rebar to be larger and more detailed was necessary.
					Potential impacts to contractor productivity caused by multiple issues which may result in contractor moving to another				A hydrotest on the cross-tie between L-300A and L-300B experienced a
129	24017	I-003 L-300B MP 299-351.8 UPGRADE PH-1	Ctr Vly	Productivity Impacts	construction location on-site or other methods of mitigation.	N/A	5	No	rupture which caused delays on this project.
130	24017	I-003 L-300B MP 299-351.8 UPGRADE PH-1	Ctr Vlv	Unexpected Condition of Pipe, Valves or Fittings	Pipe, valves or fittings may be leaking or faulty requiring additional work to repair or replace them, including linear indications on the pipe.	\$20,000		No	A newly installed valve failed during hydrotest so the manufacturer was called to help evaluate and repair the valve. The hydrotest was then re-done resulting in additional costs to the project.
		TS-003-13 TS-003-13, Line GCUST5814, Palo			Any changes to the project scope that were excluded from or occurred after IFB (e.g. design changes, expanded excavation,				It was determined to be necessary to cut off a TAP, resulting in additional
131	30220	Alto TS-003-13 TS-003-13, Line GCUST5814, Palo	Ctr Cst	Changes After IFB	added replacement/test length, etc.).  Specific cost assumptions in the Job Estimate proved to be	\$8,000			work.
132	30220	Alto	Ctr Cst	Low Estimate	inaccurate.	\$4,500			
133	23662	V-069 Valve Auto - Airport & French Camp, 3V, Ph. 1	Ctr Vly	Opportunity: Bundling of Work	Bundling of work with other projects may result in cost savings.	(\$100,000)	N/A	No	This project was combined with 5 other PG&E projects in the area during construction, allowing for a 40% cost savings on this project.
		R-007 L-108_1A REPL 2.19MI MP 37.14-38.17		Opportunity: Alternate	Use of alternate construction methods may result in cost and/or				Construction methods were altered in order to eliminate crop loss thus
134	27594	PH1	Ctr Vly	Construction Methods	time savings.	(\$1,500,000)	N/A	No	reducing project costs related to paying the land owners for their lost crops.
					Any changes to the project scope that were excluded from or occurred after IFB (e.g. additional sniff holes, expanded				One sniff hole that was planned did not need to be dug because it was included in the adjacent replacement project instead so a deductive change
135	30531	T-284-13, Line DFM-1815-02, Monterey	Ctr Cst	Opportunity: Changes After IFB	excavation, added replacement length, etc.).	(\$15,000)	N/A	No	order.

Actual Costs  All values in millions of dollars	Shareholder Funded <sup>1</sup>
	Sharehouer rangey
2011-2014 ITD PSEP Costs PSEP 2011 2012 2013 2014 Sharehold	
PSEP Expense 2011 2012 2013 2013 IAN 2013 FEB 2013 MAY 2013 MAY 2013 JUN 2013 JUN 2013 JUN 2013 OCT 20	2013 MAR 2013 APR 2013 MAY 2013 JUN 2013 JULY 2013 AUG 2013 SEP 2013 OCT 2013 NOV 2013 DEC
Pipeline Modernization	
Pipe Replacement 0.00 0.00 0.13 0.00 0.01 (0.01) 0.01 0.00 0.00 0.00 0.00 0.00 0.04 (0.00) 0.08 0.13 In Line Inspection 0.00 0.00 2.40 0.04 0.04 0.04 0.14 0.46 (0.02) 0.43 0.05 0.25 0.43 0.28 0.21 0.10 2.40	
<sup>1</sup> Strength Test	
<sup>3</sup> Pre-1955 Installation 125.09 0.60 3.15 1.68 6.90 9.05 10.73 10.80 8.80 27.85 20.64 14.26 10.62 <sup>3</sup> Post-1955 Installation 33.92 1.43 0.93 1.70 0.83 5.25 6.57 7.50 8.70 (7.63) 4.43 (1.84) 6.04	
From 1995 instantiation 33-3.6 1.70 0.93 1.70 0.95 5.23 0.57 1.50 0.70 1.00 1.00 1.00 1.00 1.00 1.00 1.0	
Eng Cond / Fatigue Analysis 0.00 0.00 0.32 0.01 0.01 0.04 0.05 0.03 (0.03) 0.01 0.02 0.01 0.10 0.04 0.05 0.32	
Pipeline Modernization Total 228.17 130.70 161.86 2.08 4.13 3.56 8.24 14.32 17.69 18.36 17.77 20.66 25.48 12.67 16.89 520.74 149.53 0.00 2.35 65.93 81.25 452.49 228.17 128.35 95.96 1.47 1.01	1.81 0.91 6.52 5.36 12.87 12.27 15.17 19.99 7.18 11.40
Pipeline Records Integration	
MAOP 90.46 120.25 29.31 4.56 5.52 10.30 2.70 4.93 (0.21) (1.07) 4.38 (1.85) 0.71 (0.68) 0.03 240.02  Mariner 1.16 3.80 1.41 0.38 0.47 0.79 1.71 (0.64) (1.62) (0.36) 0.49 0.08 (0.07) 0.13 0.06 6.37	
Pipeline Records integration Total 91.62 124,05 30.72 4.94 8.98 11.09 4.41 4.29 (1.83) (1.43) 4.86 (1.77) 0.64 (0.55) 0.09 246.39 0.00 0.00 0.00 0.00 0.00 246.39 91.62 124,05 30.72 4.94 5.98	11.09 4.41 4.29 (1.83) (1.43) 4.86 (1.77) 0.64 (0.55) 0.09
Valve Automation 0.01 0.50 1.85 0.07 0.27 0.22 0.11 0.19 0.08 0.27 0.09 0.14 0.14 0.07 0.20 2.36 6.73 0.00 0.08 3.01 3.64 0.43 0.01 0.42 0.00 0.02 0.13	0.08 (0.20) (0.05) 0.03 0.00 0.00 (0.00) 0.00 0.00 0.00
Interim Safety Measures 0.00 2.40 2.29 (0.03) 0.05 0.49 0.31 (0.03) (0.01) 0.42 0.34 0.04 0.32 0.03 0.37 4.69 2.09 0.00 0.03 1.04 1.02 3.55 0.00 2.37 1.19 (0.12) (0.14)	
PMO 5.05 6.50 3.47 0.22 0.14 (0.02) 0.31 0.27 0.34 1.03 0.96 (0.84) 0.69 (0.27) 0.65 15.01 6.73 0.00 0.11 3.34 3.28 11.60 5.05 6.39 0.17 0.16 (0.13)  Other	
Other 6.83 6.25 5.21 0.33 0.36 0.71 0.32 (1.37) 0.10 2.00 (0.52) 1.42 0.43 3.85 (2.41) 18.30 0.00 0.00 0.00 0.00 0.00 0.00 18.30 6.83 6.25 5.21 0.33 0.36    Total PSEP Expense 331.68 270.40 205.41 7.61 10.94 16.05 13.70 17.67 16.37 20.65 23.49 19.64 27.69 15.80 15.79 807.49 165.08 0.00 2.58 73.31 89.19 732.77 331.68 267.82 133.26 6.80 7.31	
PSEP Capital	
Pipeline Modernization <sup>1</sup> Pipeline Replacement	
Pipeline Replacement less Post-1955 Strength Test	
rosc1953 stienger rest  3 Cot 11.89 226.28 310.06 15.51 11.54 16.31 21.42 34.14 25.26 26.74 34.73 42.77 39.20 24.96 17.49 548.23	
<sup>9</sup> Post-1955 Strength Test Cost 0.00 2.07 2.20 2.50 0.00 0.00 (0.50) 0.30 2.70 0.24 0.37 (4.06) 0.11 0.47 0.07 4.27	
Pipeline Replacement Total 11.89 228.36 312.26 18.01 11.54 16.31 20.92 34.44 27.96 26.98 35.10 38.72 39.30 25.43 17.56 552.50  Strength Test Related 5.86 12.30 28.79 1.01 0.71 0.13 (1.27) 4.88 3.22 6.54 5.16 5.69 2.34 0.89 (0.50) 46.95	
surrigin textreated: 5.50 12.30 26.79 1.01 0.71 0.13 (1.27) 4.88 3.22 6.54 5.16 5.69 (0.50) 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.95 [1.50] 46.9	
Pipeline Modernization Total 18.37 256.66 377.83 21.01 16.10 21.95 21.86 42.05 33.48 36.97 42.66 46.95 44.71 29.24 20.85 652.85 852.48 30.49 214.93 290.11 316.95 4.27 0.00 2.07 2.20 2.50 0.00	0.00 (0.50) 0.30 2.70 0.24 0.37 (4.06) 0.11 0.47 0.07
Pipeline Records Integration	
MAOP 1.67 0.28 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
Pipeline Records Integration Total 6.54 29.58 37.11 2.30 1.22 3.72 0.62 3.72 4.13 5.41 4.54 5.28 4.08 0.91 3.70 73.23 0.00 0.00 0.00 0.00 73.23 6.54 29.58 37.11 2.30 1.22	3.72 0.62 3.72 4.13 5.41 4.54 3.28 4.08 0.91 3.20
<sup>1</sup> Valve Automation 12.98 29.51 51.89 1.29 2.76 3.05 3.59 5.25 5.72 6.20 8.68 9.04 7.87 (4.45) 2.90 94.38 129.04 13.69 38.93 51.66 24.76 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Interim Safety Measures 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PMO 2.27 2.10 8.82 0.60 0.41 0.95 0.77 0.96 0.80 0.00 0.77 1.30 0.23 0.63 1.40 13.18 22.29 3.05 6.51 6.41 6.31 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	

<sup>StanPac included in Actual and Forecasted Costs and Authorized Recovery.

Authorized Amount from D-12.12.030.

Pre/Post 1955 spend has been updated based on MAOP Validation.

Shareholder Funded Portion does not tie to SEC Financials as our financial statements have been updated to reflect revenue numbers consistent with the Update Application. Inception-to-Date (ITD) amounts include reallocation of prior period amounts consistent with PSEP scope decisions and cost allocation.</sup> 

TABLE 22-1
PACIFIC GAS AND ELECTRIC COMPANY
PROJECT STATUS SUMMARY - PROJECTS COMPLETED
JANUARY 1, 2013 – DECEMBER 31, 2013

Line #	PSEP Filing PSRS	New PSRS	Project Description	Miles Completed	Line	MP1	MP2	City	HCA	Class Code	Clearance Date	Tie-in Date
1	24909	24909	R-043 SP4Z RETIRE 0.42MI MP 8.18-8.43 PH1	0.42	SP4Z	8.18	8.43	Oakley	Yes	3,SPLIT	12-Apr-13	24-Apr-13
2	26442	26442	R-100 L-131 RETIRE 0.58MI MP 8.56-8.93 PH1	0.58	L-131	8.56	8.93	Oakley	Yes	3	29-Mar-13	24-Apr-13
3	25791	25791	R-114 L-114 RETIRE 0.70MI MP 8.18-8.91 PH1	0.70	L-114	8,18	8.91	Oakley	Yes	2	12-Apr-13	24-Apr-13
4	23862	23862	R-071 DFM-1502-08 REPL 0.25MI MP 0.01-0.52 PH1	0.52	DFM-1502-08	0.01	0.52	Yuba	No	2,Split	21-Dec-12	3-Jan-13
5	26045	26045	R-018 L-114_2 REPL 1.89MI MP 9.04-10.50 PH1	1.72	L-114_2	9.04	10.50	Oakley	Yes	3	12-Jan-13	12-Jan-13
6	23807	23807	R-041 DFM-1020-01 REPL 2.47MI MP 0.00-2.69 PH1	2.69	DFM-1020-01	0.00	2.69	Butte	No	2,3,SPLIT	14-Jan-13	14-Jan-13
7	26029	26029	R-006 L-111A REPL 9.78MI MP 20.32-27.57 PH1	8.80	L-111A	20.32	27.57	Fresno	Yes	1,2,3,Split	17-Dec-12	28-Feb-13
8	24903	24903	R-139 L-131Y REPL 0.01MI MP 0.53-0.54 PH1	0.01	L-131Y	0.53	0.54	Brannan Isld Park	No	3	10-May-13	10-May-13
9	27712	27712	R-131 L-119B-1 REPL 0.03MI MP 0.00-0.03 PH1	0.03	L-119B-1	0.00	0.03	Sacramento	Yes	3,SPLIT	14-May-13	14-Jun-13
10	25727	25727	R-022 L-109_2A REPL 3.50MI MP 13.65-16.93 PH1	3.50	L-109_2A	13.65	16.93	Palo Alto/Stanford	Yes	3	16-Dec-12	19-Jun-13
11	23762	23762	R-038 DFM-1813-02 REPL 0.01MI MP 1.00-1.06 PH1	0.01	DFM-1813-02	1.00	1.06	Salinas	Yes	3	9-Jul-13	9-Jul-13
12	31029	31029	R-102 L-162A REPL 0.35MI MP 7.40-7.72 PH1	0.35	L-162A	7.40	7.72	Tracy	No	3	15-Jul-13	15-Jul-13
13	27960	27960	R-133 L-167 REPL 4.75MI MP 29.77-34.53 PH1	4.75	L-167	29.77	34.53	Yuba City	Yes	1,2,3,SPLIT	24-Jul-13	24-Jul-13
14	31696	31696	R-137 L-173 REPL 0.02MI MP 5.50-5.51 PH1	0.02	L-173	5.50	5.51	Rocklin	No	3	18-Jul-13	29-Jul-13
15	26014	26014	R-003 DFM-7221-10 REPL 4.65MI MP 12.07-16.13 PH1	4.65	DFM-7221-10	12.07	16.13	Modesto	Yes	3	12-Aug-13	12-Aug-13
16	26033	26033	R-005 L-138 REPL 7.29MI MP 38.36-45.08 PH1	6.82	L-138	38.36	45.08	Fresno	Yes	2,3,Split	21-Nov-12	12-Aug-13
17	24889	24889	R-124 DFM-1306-06 REPL 0.01MI MP 0.00-0.01 PH1	0.01	DFM-1306-06	0.00	0.01	Sonoma	No	3	16-Aug-13	16-Aug-13
18	23694	23694	R-023 L-131_1 REPL 1.49MI MP 32.37-33.77 PH1	1.49	L-131_1	32.37	33.77	Livermore	Yes	3	24-Aug-13	24-Aug-13
19	26843	26843	R-051 L-210A REPL 1.27MI MP 24.14-25.41 PH1	1.27	L-210A	24.14	25.41	Napa	Yes	1,3,SPLIT	28-Aug-13	27-Aug-13
20	28091	28091	R-140 L-118A Transfer 6.15MI MP 0.00-5.62 PH1	6.15	L-118A	0.00	5.86	Fresno	Yes	2,3,SPLIT	5-Oct-13	5-Oct-13
21	24895	24895	R-110 DFM-3008-01 REPL 0.05MI MP 7.99-8.02 PH1	0.05	DFM-3008-01	7.99	8.02	Walnut Creek	No	3	5-Jul-13	11-0ct-13
22	31295	31295	R-122 DFM-1306-01 REPL 0.01MI MP 1.48-1.48 PH1	0.00	DFM-1306-01	1.48	1.48	Sonoma	No	3	11-Oct-13	11-Oct-13
23	27979	27979	R-134 L-114_2 REPL 3.59MI MP 12.68-16.54 PH1	3.59	L-114_2	12.68	16.54	Brentwood	Yes	3	16-Oct-13	19-Oct-13
24	23769	23769	R-105 DFM-1815-02 REPL 0.45MI MP 18.76-19.24 PH1	0.45	DFM-1815-02	18.76	19.24	Monterey	Yes	3	23-Sep-13	31-Oct-13
25	25790	25790	R-069 L-050A Transfer 5.09MI MP 2.55-7.60 PH1	5.09	L-050A	2.55	7.60	Yuba City	Yes	2,3	5-Sep-13	1-Nov-13
26	27890	27890	R-132 DFM-7222-01 REPL 10.23MI MP 0.99-11.16 PH1	10.23	DFM-7222-01	0.99	11.16	Turlock	Yes	3,SPLITS	12-Nov-13	16-Nov-13
27	26006	26006	R-011 L-118A REPL 8.11MI MP 5.62-12.55 PH1	7.10	L-118A	5.62	12.55	Fresno	Yes	2,3,SPLIT	23-Nov-13	23-Nov-13
28	27594	27594	R-007 L-108_1A REPL 2.19MI MP 37.14-38.17 PH1	2.19	L-108_1A	37.14	38.17	Stockton	Yes	1,2,3	20-Dec-13	20-Dec-13
29	23682	23682	R-148 DFM-1617-01 REPL 0.85MI MP 0.82-1.26 PH1	0.85	DFM-1617-01	0.82	1.26	Tracy	Yes	3,SPLIT	20-Dec-13	20-Dec-13
30	23366	23366	R-029 L-109 REPL 0.71MI MP 9.27-9.87 Spread 6A	0.59	L-109	9.27	9.87	Mountain View	Yes	3	18-Dec-12	20-Dec-13

TABLE 23-1
PACIFIC GAS AND ELECTRIC COMPANY
PROJECT STATUS SUMMARY - PROJECTS COMPLETED
JANUARY 1, 2013 – DECEMBER 31, 2013

				—/	ZO19 BEGEMBER 91	,						
Line#	PSEP Filing PSRS	New PSRS	Project Description	Miles Completed	Line	MP1	MP2	City	HCA	Class Code	Clearance Date	Tie-in Date
1	23905	25904	T-101-12, Line DFM-3010-01, Antioch	0.61	DFM-3010-01	0.64	1.27	Antioch	Yes	3	1-Feb-13	4-Feb-13
2	24183	25897	TIM-042-12, Line L-057A-MD1, McDonald Island	0.61	L-057A-MD1	0.0043	0.616	McDonald Island	Yes	1,3	25-Jan-13	15-Feb-13
3	24183	25896	TIM-043-12, Line L-057A-MD1, McDonald Island	0.16	L-057A-MD1	0.97	1.13	McDonald Island	Yes	1	25-Jan-13	15-Feb-13
4	N/A	28473	T-038B-11, Line L-132, Daly City	0.02	L-132	46.59	46.6059	Daly City	Yes	3	23-Feb-13	25-Feb-13
5	23876	27613	T-226-13, Line DFM-0817-01, San Jose	0.46	DFM-0817-01	0	0.4687	San Jose	Yes	3	22-Mar-13	4-Apr-13
6	23554	25866	T-082-12, Line L-119B, Sacramento	1.35	L-119B	8.8900	10.1500	Sacramento	Yes	3	14-Apr-13	27-Apr-13
7	23874	25841	T-015-12, Line L-131_2, Oakley	0.13	L-131_2	8.45	8.58	Oakley	Yes	3	28-Mar-13	1-May-13
8	24216	25884	T-093-12, Line L-210C, Vallejo	0.41	L-210C	31.27	31.68	Vallejo	Yes	3	19-Apr-13	4-May-13
9	23560	23560	T-310-14, Line DFM-0141-01, Crockett	0.43	DFM-0141-01	0	0.43	Crockett	No	3	17-May-13	19-May-13
10	23524	28395	T-206-13, Line L-187, King City	10.24	L-187	22.82	33.04	King City	No	1,3	29-Apr-13	20-May-13
11	23510	25902	T-046-12, Line L-138, Fresno	2.46	L-138	35.91	38.38	Fresno	Yes	1,2,3	3-May-13	24-May-13
12	23532	27604	T-218-13, Line L-021B, Napa	2.68	L-021B	0.01	2.31	Napa	Yes	1,2,3	13-May-13	8-Jun-13
13	23478	27652	TIM-273-13, Line DFM-7226-01, Modesto	4,59	DFM-7226-01	0.01	4.59	Modesto	Yes	3	15-May-13	8-Jun-13
14	23483	23483	T-360-14, Line DFM-7226-13, Modesto	0.25	DFM-7226-13	0	0.25	Modesto	No	3	15-May-13	8-Jun-13
15	23524	28407	T-207-13, Line L-187, Greenfield	7.98	L-187	33.04	41.08	Greenfield	Yes	1,2,3	24-May-13	13-Jun-13
STATEMENT AND CONTRACTOR OF CO		27609		\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	DFM-0604-01	3.926	(10.000 00 00 00 00 00 00 00 00 00 00 00 0					
16	23565		T-224A-13, Line DFM-0604-01, Vacaville	0.79			4.711	Vacaville	Yes	3	6-Jun-13	21-Jun-13
17	23550	27615	T-229A-13, Line L-118B, Madera	0.26	L-118B	8.46	8.72	Madera	Yes	3	14-Jun-13	21-Jun-13
18	23524	28408	T-208A-13, Line L-187, Soledad	1.60	L-187	41.08	42.64	Soledad	Yes	2,3	21-Jun-13	28-Jun-13
19	23550	27615	T-229C-13, Line L-118B, Madera	2.06	L-118B	8.46	8.72	Madera	Yes	3	14-Jun-13	8-Jul-13
20	24212	27608	T-223A-13, Line L-050A-1, Marysville	1.27	L-050A-1	1.56	2.87	Marysville	Yes	1,3	12-Jun-13	12-Jul-13
21	23499	27622	T-240-13, Line L-162A, Tracy	1.34	L-162A	7.72	9.03	Tracy	No	3	13-Jun-13	15-Jul-13
22	N/A	30220	TS-003-13, Line GCUST5814, Palo Alto	0.00	GCUST5814	0.1	0.1	Palo Alto	Yes	3	8-Jul-13	17-Jul-13
23	24188	25870	T-028-12, Line DFM-2403-12, Fremont	2.83	DFM-2403-12	0.05	2.8771	Fremont	Yes	3	9-Jun-13	21-Jul-13
24	23911	31386	T-331A-14, Line DFM-1501-01, Yuba City	4.00	DFM-1501-01	0.04	3.99	Yuba City	Yes	3	14-Jun-13	24-Jul-13
25	23511	25860	TIM-022C-12, Line L-191-1, Walnut Creek	1.70	L-191-1	19.65	21.35	Walnut Creek	Yes	3	21-Jun-13	26-Jul-13
26	23511	25860	TIM-022D-12, Line L-191-1, Walnut Creek	1.04	L-191-1	19.65	21.35	Walnut Creek	Yes	3	21-Jun-13	26-Jul-13
27	23524	28408	T-208B-13, Line L-187, Soledad	3.39	L-187	41.08	42.64	Soledad	Yes	2,3	21-Jun-13	26-Jul-13
28	23532	27606	T-220-13, Line L-021B, Petaluma	4.15	L-021B	10.64	14.8	Petaluma	No	1,2	8-Jul-13	26-Jul-13
29	23570	27603	T-217-13, Line DFM-0215-01, Belmont	0.74	DFM-0215-01	0.02	0.78	Belmont	Yes	3	20-Jul-13	28-Jul-13
30	23864	27569	T-174-12, Line DFM-1816-05, Watsonville	0.80	DFM-1816-05	0	1.2	Watsonville	No	2,3	15-Jul-13	29-Jul-13
31	23524	28408	T-208C-13, Line L-187, Soledad	0.60	L-187	41.08	42.64	Soledad	Yes	2,3	21-Jun-13	9-Aug-13
32	23872	27632	T-268-13, Line DFM-1813-02, Seaside	0.38	DFM-1813-02	11.75	12.05	Seaside	No	3	12-Jul-13	12-Aug-13
33	23872	27649	T-269A-13, Line DFM-1813-02, Monterey	0.45	DFM-1813-02	12.52	12.95	Seaside	Yes	3	12-Jul-13	12-Aug-13
34	23499	27621	T-239-13, Line L-162A, Tracy	0.35	L-162A	4.41	4.76	Tracy	Yes	3	2-Aug-13	14-Aug-13
35	23550	27614	T-228-13, Line L-118B, Madera	6.69	L-118B	1.04	7.72	Madera	Yes	1,2,3	22-Jul-13	15-Aug-13
36	23892	29093	T-227-13, Line DFM-1023-01, Redding	1.16	DFM-1023-01	0.82	1.97	Redding	Yes	3	1-Aug-13	16-Aug-13
37	23524	28409	T-209-13, Line L-187, Soledad	4.04	L-187	46.63	50.67	Soledad	Yes	1,3	10-Aug-13	17-Aug-13
38	23511	25860	TIM-022B-12, Line L-191-1, Walnut Creek	4.33	L-191-1	19.65	21.35	Walnut Creek	Yes	3	21-Jun-13	23-Aug-13
39	23524	28410	T-210-13, Line L-187, Gonzales	5.89	L-187	50.67	56.55	Gonzales	No	1,3	20-Aug-13	30-Aug-13
40	23506	27623	T-241-13, Line L-177B, Chico	6.65	L-177B	0.86	7.51	Chico	Yes	1,2,3	29-Jul-13	5-Sep-13
41	N/A	30025	T-013C-12, Line L-109, Daly City	0.24	L-109	44.7195	45.39	Daly City	Yes	3	14-Aug-13	12-Sep-13
42	23872	27649	T-269B-13, Line DFM-1813-02, Monterey	3.48	DFM-1813-02	12.52	12.95	Monterey	Yes	3	12-Jul-13	12-Sep-13
43	23856	25889	T-038-12, Line DFM-1615-01, Modesto	10.14	DFM-1615-01	0.02	10.12	Modesto	Yes	1,3	25-Jul-13	15-Sep-13
44	23542	28411	T-211A-13, Line L-187, Chualar	3.59	L-187	56.55	60.03	Chualar	Yes	1,2,3	10-Sep-13	20-Sep-13
45	23493	25820	T-051A-12, Line L-142N, Bakersfield	0.47	L-142N	8.26	8.70	Bakersfield	Yes	3	31-Jul-13	21-Sep-13
46	23493	25820	T-051B-12, Line L-142N, Bakersfield	0.06	L-142N	8.26	8.70	Bakersfield	Yes	3	31-Jul-13	21-Sep-13
47	23493	25820	T-051C-12, Line L-142N, Bakersfield	1.66	L-142N	8.26	8.70	Bakersfield	Yes	3	31-Jul-13	21-Sep-13
48	23872	27648	TIM-267-13, Line DFM-1813-02, Marina	1.22	DFM-1813-02	8.50	9.71	Marina	Yes	1,3	12-Sep-13	23-Sep-13
49	23748	28495	T-281B-13, Line L-191, Antioch	2,62	L-191	3.88	6.4753	Antioch	Yes	3	11-Sep-13	1-Oct-13
50	23493	25820	T-051D-12, Line L-142N, Bakersfield	1.37	L-142N	8.26	8.70	Bakersfield	Yes	3	31-Jul-13	3-Oct-13
51	23533	25833	TIM-065-12, Line L-021C, Penngrove	8.39	L-021C	35.05	43.26	Penngrove	Yes	3,SPLIT	15-Sep-13	6-Oct-13
	2000	ZJ033	HIVEOUSTE, EINC ETUZTE, FEIRIGIUVE	0.53	L-UZIC	JJ.UJ	73.40	i emigrove	1 53	JJJELII	12-3ch-12	0-OCt-13

TABLE 23-1
PACIFIC GAS AND ELECTRIC COMPANY
PROJECT STATUS SUMMARY - PROJECTS COMPLETED
JANUARY 1, 2013 – DECEMBER 31, 2013

Line#	PSEP Filing PSRS	New PSRS	Project Description	Miles Completed	Line	MP1	MP2	City	HCA	Class Code	Clearance Date	Tie-in Date
52	23554	25864	T-081-12, Line L-119B, North Highlands	4.64	L-119B	2.23	6.88	North Highlands	Yes	3,SPLITS	8-Sep-13	7-Oct-13
53	23472	27651	T-272B-13, Line DFM-7223-01, Turlock	0.54	DFM-7223-01	9.475	10.10	Turlock	No	3	5-Sep-13	8-Oct-13
54	23690	27760	T-285-13, Line X6526, Kettleman City	0.28	X6526	0	0.26	Kettleman City	Yes	1	8-Jul-13	8-Oct-13
55	23567	23567	T-318A-14, Line DFM-0604-06, Vacaville	2.37	DFM-0604-06	0.49	2.968	Vacaville	Yes	3	16-Sep-13	9-Oct-13
56	23542	28411	T-211B-13, Line L-187, Chualar	5.70	L-187	56.55	60.03	Chualar	Yes	1,2,3	10-Sep-13	10-Oct-13
57	23550	27617	T-230-13, Line L-118B, Madera	9.27	L-118B	10.87	20.07	Madera	Yes	1,2,3	25-Sep-13	12-Oct-13
58	23511	25861	T-023-12, Line L-191-1, Martinez	3.68	L-191-1	31.9	35.83	Martinez	Yes	1,3	9-Sep-13	15-Oct-13
59	23856	25891	T-039A-12, Line DFM-1615-01, Modesto	4.82	DFM-1615-01	10.12	14.88	Modesto	Yes	3	23-Sep-13	18-Oct-13
60	23493	25820	T-051E-12, Line L-142N, Bakersfield	1.34	L-142N	8.26	8.70	Bakersfield	Yes	3	31-Jul-13	19-Oct-13
61	23733	31372	T-337-14, Line DFM-1603-03, Manteca	0.48	DFM-1603-03	0	0.4829	Manteca	No	3	8-Oct-13	22-Oct-13
62	23472	27651	T-272A-13, Line DFM-7223-01, Turlock	1.17	DFM-7223-01	9.475	10.10	Turlock	No	3	5-Sep-13	24-Oct-13
63	23926	30056	T-282A-13, Line L-172A, West Sacramento	0.60	L-172A	78.53	79.11	West Sacramento	Yes	3	30-Sep-13	25-Oct-13
64	23926	30056	T-282B-13, Line L-172A-1, West Sacramento	0.19	L-172A	78.53	79.11	West Sacramento	Yes	3	30-Sep-13	25-Oct-13
65	23569	27611	T-225A-13, Line DFM-0604-07, Vacaville	2.38	DFM-0604-07	4.1	6.41	Vacaville	Yes	1,3	10-Oct-13	30-Oct-13
66	23567	23567	T-318B-14, Line DFM-0604-06, Vacaville	0.48	DFM-0604-06	0.49	2.968	Vacaville	Yes	3	16-Sep-13	30-Oct-13
67	23911	31386	T-331B-14, Line DFM-1501-01, Yuba City	1.30	DFM-1501-01	0.04	3.99	Yuba City	Yes	3	14-Jun-13	30-Oct-13
68	24219	29707	T-355-14, Line L-300B, Kern	2.84	L-300B	269.33	272.176	Bakersfield	No	1,2	15-Oct-13	30-Oct-13
69	23769	30531	T-284-13, Line DFM-1815-02, Monterey	0.25	DFM-1815-02	19.24	19.49	Monterey	Yes	3	23-Sep-13	31-Oct-13
70	23569	27611	T-225B-13, Line DFM-0604-07, Vacaville	3.87	DFM-0604-07	4.1	6.41	Vacaville	Yes	1,3	10-Oct-13	22-Nov-13
71	23521	31108	T-303B-14, Line L-186, Dos Palos	8.96	L-186	10.14	19.17	Dos Palos	Yes	1,3	28-Oct-13	23-Nov-13
72	23521	31109	T-304-14, Line L-186, Dos Palos	6.93	L-186	19.17	26.13	Dos Palos	Yes	1,2,3	28-Oct-13	8-Dec-13
73	31511	31511	T-288A-13, Line L-300B, Bear Valley Springs	1.53	L-300B	241.4	242.91	Bear Valley Springs	Yes	1,2	1-Nov-13	19-Nov-13
74	31511	31511	T-288B-13, Line L-300B, Bear Valley Springs	0.86	L-300B	241.4	242.91	Bear Valley Springs	Yes	1,2	1-Nov-13	19-Nov-13

TABLE 25-1
PACIFIC GAS AND ELECTRIC COMPANY
PROJECT STATUS SUMMARY - PROJECTS COMPLETED
JANUARY 1, 2013 – DECEMBER 31, 2013

				······· -,	19 DECEMBERS	,						
				Miles								
			C.	ompleted/Valves								
Line#	PSEP Filing PSRS	New PSRS	Project Description	Automated	Line	MP1	MP2	City	HCA	Class Code	Clearance Date	Tie-in Date
1	23970	23970	V-028 Valve Auto - Half Moon Bay Tap, 2V, Ph. 1	2	L-109	N/A	N/A	San Mateo	N/A	N/A	13-Feb-13	13-Feb-13
2	24284	24284	V-032 Valve Auto - SP3-Line 191 Mtr Sta, 4V, Ph 1	4	L-151	N/A	N/A	Pittsburg	N/A	N/A	19-Mar-13	19-Mar-13
3	23600	23600	V-013 Valve Auto - Hamlin Court, 1V, Ph. 1	1	L-109	N/A	N/A	Sunnyvale	N/A	N/A	26-Oct-12	1-Apr-13
4	23604	23604	V-017 Valve Auto - Sullivan Ave, 1V, Ph. 1	1	L-109	N/A	N/A	Daly City	N/A	N/A	6-Apr-13	6-Apr-13
5	23601	23601	V-014 Valve Auto - Sand Hill, 2V, Ph. 1	2	L-109	N/A	N/A	Menlo Park	N/A	N/A	1-Dec-12	16-Apr-13
6	24288	24288	V-038 Valve Auto - San Pablo, 3V, Ph. 1	3	L-105A	N/A	N/A	San Pablo	N/A	N/A	18-Apr-13	18-Apr-13
7	23606	23606	V-019 Valve Auto - Martin Station, 4V, Ph. 1	4	L-132	N/A	N/A	Daly City	N/A	N/A	25-Apr-13	25-Apr-13
8	23649	23649	V-051 Valve Auto - Fairway Avenue, 2V, Ph. 1	2	L-153	N/A	N/A	San Leandro	N/A	N/A	28-Jun-13	28-Jun-13
9	23624	23624	V-035 Valve Auto - Vine Hill, 1V, Ph. 1	1	SP-3	N/A	N/A	Martinez	N/A	N/A	14-Apr-13	2-Jul-13
10	23645	23645	V-049 Valve Auto - Alvarado, 1V, Ph. 1	1	L-153	N/A	N/A	Union City	N/A	N/A	10-Jul-13	10-Jul-13
11	23647	23647	V-050 Valve Auto - Winton Avenue, 1V, Ph. 1	1	L-153	N/A	N/A	Hayward	N/A	N/A	11-Jul-13	11-Jul-13
12	23663	23663	V-057 Valve Auto - Palm Tract, 2V, Ph. 1	2	L-057B	N/A	N/A	Brentwood	N/A	N/A	7-Aug-13	7-Aug-13
13	27893	27893	V-039A Valve Auto - Clayton Reg Station, 1V, Ph. 1	1	L-191-1	N/A	N/A	Concord	N/A	N/A	1-Jul-13	15-Aug-13
14	23622	23622	V-033 Valve Auto - Los Medanos, 3V, Ph. 1	3	SP-3	N/A	N/A	Concord	N/A	N/A	21-Aug-13	21-Aug-13
15	N/A	29461	V-083 Valve Auto - Helm Tap Station, 1V, Ph. 1	1	L-300A	N/A	N/A	Fresno	N/A	N/A	22-Aug-13	22-Aug-13
16	N/A	29463	V-084 Valve Auto - West Ford Ave, 1V, Ph. 1	1	L-300B	N/A	N/A	Fresno	N/A	N/A	29-Aug-13	29-Aug-13
17	N/A	29637	V-087 Valve Auto - L-138 Adams Elm Mtr RegStn, 1V, Ph. 1	1	L-138	N/A	N/A	Fresno	N/A	N/A	30-Aug-13	30-Aug-13
18	23623	23623	V-034 Valve Auto - Concord Meter Station, 1V, Ph. 1	1	SP-3	N/A	N/A	Concord	N/A	N/A	12-Sep-13	12-Sep-13
19	23660	23660	V-070 Valve Auto - Airport & Sonora, 3V, Ph. 1	3	L-108	N/A	N/A	Stockton	N/A	N/A	19-Sep-13	19-Sep-13
20	23637	23637	V-047 Valve Auto - Livermore Junction, 2V, Ph. 1	2	L-303	N/A	N/A	Livermore	N/A	N/A	25-Sep-13	25-Sep-13
21	23656	23656	V-072 Valve Auto - 8 Mile Pls, 2V, Ph. 1	2	L-108	N/A	N/A	Stockton	N/A	N/A	25-Sep-13	25-Sep-13
22	24254	28282	V-031B Valve Auto Delta Fair, 1V, Ph. 1	1	SP-5	N/A	N/A	Antioch	N/A	N/A	16-Aug-13	4-Oct-13
23	23631	23631	V-040 Valve Auto - Walnut Ave, 1V, Ph. 1	1	L-191-1	N/A	N/A	Walnut Creek	N/A	N/A	5-Jul-13	11-Oct-13
24	23674	23674	V-063 Valve Auto - Valero Refinery Tap, 3V, Ph. 1	3	L-210C	N/A	N/A	Benicia	N/A	N/A	14-Oct-13	14-Oct-13
25	23651	23651	V-052 Valve Auto - 51St Avenue, 1V, Ph. 1	1	L-105N	N/A	N/A	Oakland	N/A	N/A	25-Oct-13	25-Oct-13
26	23658	23658	V-071 Valve Auto - West Lane & Hammertown, 3V, Ph. 1	3	L-108	N/A	N/A	Stockton	N/A	N/A	1-Nov-13	1-Nov-13
27	23635	23635	V-045 Valve Auto - East Airway, 3V, Ph. 1	3	L-131	N/A	N/A	Livermore	N/A	N/A	4-Nov-13	4-Nov-13
28	23655	23655	V-053 Valve Auto - 4th & Jefferson, 1V, Ph. 1	1	L-105N	N/A	N/A	Oakland	N/A	N/A	11-Oct-13	6-Nov-13
29	27532	27532	V-031A Valve Auto - California, 1V, Ph. 1	1	L-191	N/A	N/A	Pittsburg	N/A	N/A	1-Oct-13	14-Nov-13
30	23602	23602	V-015 Valve Auto - Edgewood, 6V, Ph. 1	6	L-109	N/A	N/A	Redwood City	N/A	N/A	15-Jul-13	27-Nov-13
31	23662	23662	V-069 Valve Auto - Airport & French Camp, 3V, Ph. 1	3	L-108	N/A	N/A	Stockton	N/A	N/A	2-Dec-13	2-Dec-13
32	23603	23603	V-016 Valve Auto - Crystal Springs, 4V, Ph. 1	4	L-109	N/A	N/A	Hillsborough	N/A	N/A	12-Sep-13	5-Dec-13
33	23675	23675	V-061 Valve Auto - Sac Gas Load Center, 4V, Ph. 1	4	L-108	N/A	N/A	Sacramento	N/A	N/A	17-Dec-13	17-Dec-13
34	24281	30014	V-030 Valve Auto - Antioch Terminal, 5V, Ph. 1	5	L-303	N/A	N/A	Antioch	N/A	N/A	9-Nov-13	19-Dec-13
35	24022	24022	L-300A MP353 to MP391 ILI Inspection P&A	39.00	L-300A	352.3	391.2	Kettleman City	Yes	1,2	3-Apr-13	15-Apr-13
36	24023	24023	I-005 L-300A MP 299-352 UPGRADE PH-1	54.80	L-300A	299	352	Fresno	Yes	1,3	20-Apr-13	27-Jul-13
37	24017	24017	I-003 L-300B MP 299-351.8 UPGRADE PH-1	54.80	L-300B	299	351.8	Fresno	No	1	24-Mar-13	25-Oct-13
38	24017	24025	I-006 L-132 MP 31.96-38.39 UPGRADE PH-1	6.50	L-132	31.96	38.39	Hillsborough	Yes	3	8-Nov-13	13-Dec-13