PG&E Monthly WISP Project Status Update

Partner Name	PG&E	Report For	September 2010
Project Manager	Redacted	**Date Submitted**	October 15, 2010
Budget Forecast to Date	$2,735,000	**Actuals to Date**	$1,428,496

Key Accomplishments or Milestones	• The WECC/PG&E Project Agreement has been signed by both parties • PG&E has submitted invoices 2 and 3 for the period April 2010 thru August 2010 • PG&E has placed orders for some of the equipment (cabinets, routers, switches, and real time digital simulator (RTDS)) needed for its proof of concept testing (scheduled to start Q1 2011).
Important Ongoing Activities (Include key ongoing activities both technical and management related)	• Continued development of preliminary visualization tools. Some of the advanced visualization tools will be available for review in December. • Team has prepared functional requirements / specifications for PMUs, phasor data concentrators (PDCs), and data storage – The specifications are in second round of internal review • The cyber security test plans have been prepared and are out for review. • Preparation of the product validation test plans and designing the network topology are in progress • Continue to set up test lab for product performance validations • Continue to evaluate network bandwidth upgrade requirements between PMUs, PDUs and Super PDCs • Evaluating cyber security requirements for Syncrophasor system to validate design will meet PG&E security plan
Upcoming Activities (Include key future activities both technical and management related)	• Complete network assessments, based on agreed upon PMU locations, and begin to develop high level cost estimates for upgrading network links. • Agree on a WECC model for use in developing new applications • Purchase PMUs, PDCs and data storage that will be evaluated during the POC • Revise the PG&E WBS and PEP and provide to WECC for its review
Changes to Plan (Include Scope, approach, and Resource changes)	Over the next several weeks PG&E will update its Project Execution Plan to include additional details such as specific substation names where PMUs and PDCs will be installed. PG&E sees advantages to upgrading more existing substation devices than previously stated in the PEP. The device upgrades have a lower unit cost which will allow better coverage of substation elements.
Changes To WBS Schedule and Milestones	As the PEP is updated the WBS and schedule will be updated to match.
Changes to PEP Budget	Through September PG&E is under running the budget by about $1,306k. $1,428k was actually spent from January 2010 to September 2010 vs. $2,735k planned. This is a timing variance due to (1) delays in entering into subcontracts and (2) deferring

	substation walkdowns and final engineering until 2011. Invoicing by subcontractors over the remainder of 2010 will close approximately half of the variance. The remainder will be addressed through the schedule update.
Significant Problems/ Risks	None to report this period.
Issues Requiring WISP PMO/ESC /TAC Attention	None to report this period.

Earned Value

WBS #	WBS Description	BCWP To Date	Monthly ACWP	Confidence 0 to 5	Comment
1.1	Project Mgmt	$250,000	$24,620	4	
1.2	Perform Proof-of-Concept & Initial Project Development	$2,075,000	$434,524	4	
1.3	PMU & Field Communication Deployment at Substation 1--4	$35,000	$0		
1.4	PMU & Field Communication Deployment at Substation 5-8	$35,000	$0		
1.5	Upgrade PMUs at PG&E 10 500kV Substations	$0	$0		
1.6	PDC Deployment Site 1	$10,000	$0		
1.7	PDC Deployment Site 2	$10,000	$0		
1.8	PDC Deployment Site 3	$10,000	$0		
1.9	PDC Deployment Site 4	$10,000	$0		
1.1	PDC Deployment Site 5	$10,000	$0		
1.11	PDC Deployment Site 6	$10,000	$0		
1.12	PDC Deployment Site 7	$10,000	$0		
1.13	Perform Network Upgrades / Expansion	$20,000	$0		
1.14	Phasor Work @ SFGO Control Center	$0	$0		
1.15	Phasor Work @ VGCC Control Center	$0	$0		
1.16	Build & Test WECC Interface	$0	$0		
1.17	PG&E Application Development	$250,000	$0		
1.18	Fault Recorder Upgrades to Comply w/ PRC-002	$0	$0		
1.19	Testing & Commissioning	$0	$0		