

**Western Interconnection Synchrophasor Program (WISP)**

Monthly Project Status Report

## PG&E Monthly WISP Project Status Update

<b>Partner Name</b>	PG&E	<b>Report For:</b>	December 2010
<b>Project Manager</b>	Redacted	<b>Date Submitted:</b>	January 19, 2011
<b>Budget Forecast to Date</b>	\$4,975,000	<b>Actual Cost thru Dec:</b>	\$ 3,220,411
<b>Key Accomplishments or Milestones</b>	<ul style="list-style-type: none"> <li>• Invoices 1 - 6 covering PG&amp;E work between Jan '10 and Nov '10 have been submitted to WECC who has forwarded portions of the invoices to DOE. To date, DOE has reimbursed WECC \$913,251.</li> <li>• PG&amp;E final cost estimates have been prepared for the total project and are being reviewed by the Project Team. These will be used to update WECC on PG&amp;E's budget and cash flows.</li> <li>• In December PG&amp;E received about \$700k in materials for the San Ramon test lab, including Schweitzer PMUs, and Omicron and RTDS phasor test equipment.</li> <li>• PG&amp;E has prepared functional requirements / specifications for PMUs, phasor data concentrators (PDCs), and data storage.</li> <li>•</li> </ul>		
<b>Important Ongoing Activities</b> (Include key ongoing activities both technical and management related)	<ul style="list-style-type: none"> <li>• Alstom and GE continue to develop and assemble their EMS software and phasor measurement equipment, respectively, which will be delivered in February 2011 for product validation testing in San Ramon.</li> <li>• PG&amp;E engineering for the product validation testing is 90% complete, with a forecast completion date of 2/14/11.</li> </ul>		
<b>Upcoming Activities</b> (Include key future activities both technical and management related)	<ul style="list-style-type: none"> <li>• Complete network assessments, based on agreed upon PMU locations, and begin to develop high level cost estimates for upgrading network links</li> <li>• Agree on a WECC model for use in developing new applications</li> <li>• Begin procurement process for the data storage devices that will be evaluated during the POC</li> <li>• Revise the PG&amp;E schedule and budget based on updated scope and WBS</li> <li>• PG&amp;E is scheduled to begin assembling equipment for the proof-of-concept in late February (this is about 6 weeks later than originally planned).</li> <li>• Invoice 7 covering PG&amp;E work in Dec '10 is being prepared for submittal to WECC.</li> </ul>		
<b>Changes to Plan</b> (Include Scope, approach, and Resource changes)	<p>PG&amp;E has updated its PEP and WBS to include additional details such as specific substation names where PMUs and PDCs will be installed.</p> <p>PG&amp;E will now update its schedule and budget plan and request approval per the change control process.</p>		
<b>Changes To WBS Schedule and Milestones</b>	See Change to Plan above.		
<b>Changes to PEP</b>	The 2010 budget plan was \$4.975M. PG&E under ran the plan by about \$1.8M, with a		

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<b>Budget</b>	year end forecast of \$3.2M. This is primarily a timing variance due to (1) delays in entering into subcontracts and (2) deferring substation walk downs and final engineering until 2011.
<b>Significant Problems/ Risks</b>	None to report this period.
<b>Issues Requiring WISP PMO/ESC /TAC Attention</b>	None to report this period.

### Earned Value

WBS #	WBS Description	EV (PCWP)	Monthly ACWP	Confidence 0 to 5	Comments
1	PG&E Synchrophasor Project				
1.1	Project Mgmt	\$ 111,000	\$ 22,697	4	
1.2	Perform Proof-of-Concept & Initial Project Development	\$ 2,187,000	\$ 1,035,876	4	
1.3	PMU & Field Communication Deployment at Substation 1-4	\$ -			
1.4	PMU & Field Communication Deployment at Substation 5-8	\$ -			
1.5	Upgrade PMUs at PG&E 10 500kV Substations	\$ -			
1.6	PDC Deployment Site 1	\$ -			
1.7	PDC Deployment Site 2	\$ -			
1.8	PDC Deployment Site 3	\$ -			
1.9	PDC Deployment Site 4	\$ -			
1.10	PDC Deployment Site 5	\$ -			
1.11	PDC Deployment Site 6	\$ -			
1.12	PDC Deployment Site 7	\$ -			
1.13	Perform Network Upgrades / Expansion	\$ -			
1.14	Phasor Work @ SFGO Control Center	\$ -			
1.15	Phasor Work @ VGCC Control Center	\$ -			
1.16	Build & Test WECC Interface	\$ -			
1.17	PG&E Application Development	\$ -			
1.18	Fault Recorder Upgrades to Comply w/ PRC-002	\$ -			
1.19	Testing & Commissioning	\$ -			
	<b>Total</b>	<b>\$ 2,298,000</b>	<b>\$ 1,058,573</b>		