**Pacific Gas and
Electric Company**

	Legend
	Enterable/Modifiable
	Overwritten
	Not Updatable
	Default Value

Application Development Project Complexity and Sizing Worksheet

Date Checklist Completed:	2/11/2009
ITWR # (if applicable):	
Proposal Description:	International Financial Reporting Standards (IFRS/newGL) - 1 of 2
Client Portfolio Lead:	Darin Lemos
Anticipated Start Date of Project (MM/DD/YYYY):	6/15/2010
Anticipated End Date of Project (MM/DD/YYYY):	12/31/2010

Please provide a response for ALL criteria! The responses provided impact the Total Score for the proposed project, which helps determine the Preliminary Project Cost.

#	CRITERIA	RESPONSE	ASSUMPTIONS	SCORE
1	Expected duration of the project (in weeks):	28	(Calculated Based on Anticipated Start/End Dates, above)	2
2	Anticipated ISTS Application Development Labor Days	490	3.5 resources for duration	3
3	How many 3rd party vendor firms will provide services for this project?	1-2	SAP and one other	4
4	If the technology is known, has it been successfully implemented before at PG&E?	Yes	SAP ECC	6
5	How well are the Requirements for this proposal known by the Business (have the Requirements been documented)?	High	Current IFRS standards known	3
6	Is there a pre-existing PG&E support group to maintain/support the application?	Yes	SAP CoE	2
7	What is the level of dependency on other projects (e.g. resources, deliverables, etc)?	Low	Only dependent on associated business project	1
8	Will the system exchange or provide data to any entities outside of PG&E (suppliers, customers, regulatory agencies, etc)?	No	Not direct exchange, data exchanged manually to Edgarizer for SEC	4
9	What is the level of criticality of the system to the users and PG&E customers?	Business Critical	SEC requirement in 2012	12
10	How many internal PG&E users will be impacted by this project?	1-100	Finance Accounting Personnel	3
11	What is the anticipated amount of formal training that will be required for PG&E users?	Low	Additional screen	3
12	How many PG&E Lines of Business (LOBs) will be impacted by the project?	1	Finance	3
			TOTAL SCORE:	46

Project Complexity and Sizing

Cell: B18
Comment: Duration is calculated based on the above start and end project dates.

Cell: B19
Comment: High level estimate of application development labor days (project management through service introduction/deployment) including middleware, integration, configuration, etc.

Cell: B20
Comment: This indicates the number of 3rd-party vendor firms, NOT individual contributors and is intended to reflect potential additional project management effort to manage external vendors

Cell: B21
Comment: Has the technology to be implemented during the project been previously implemented at PG&E? How familiar are the project resources with the technology?

Cell: C21
Comment: Yes = The technology has been successfully implemented before at PG&E. Resources are very familiar with the technology.

No = The technology has not been attempted or implemented successfully previously. Resources have little or no familiarity with the technology.

Cell: B22
Comment: Does the Business fully understand their needs in completing the project? Have their needs been agreed to and documented?

Cell: C22
Comment: Low = The Business has no knowledge of the Requirements for the proposal; no Requirements have been discussed or documented.

Medium = The Business has minimal knowledge of the Requirements for the proposal; some of the Requirements have been discussed and documented.

High = The Business has a good understanding of the Requirements for the proposal; many of the Requirements have been discussed and documented.

Cell: B23
Comment: Can the proposed project/application be maintained and supported by an existing PG&E support group (Help Desk, Operations Group, System Administrators, etc)?

Cell: C23
Comment: Yes = The project/application can be maintained and supported by an existing PG&E support group

No = The project/application cannot be maintained and supported by an existing PG&E support group

Cell: B24
Comment: Are any of the proposed project's resources, deliverables, processes, or technology dependent on any other project or initiative?

Cell: C24
Comment: Low = The proposed project has little or no dependency on other projects or initiatives

Medium = The proposed project has some dependency on other projects or initiatives

High = The proposed project is highly dependent on other projects or initiatives

Cell: B25
Comment: Is data being passed through the PG&E firewall? May impact project risk and complexity.

Cell: C25
Comment: No = No data will be passed through the PG&E firewall

Yes = Data will be passed through the PG&E firewall

Cell: B26
Comment: A measure of the criticality of the system to users and PG&E customers

Cell: C26
Comment: Business Critical: requires the highest possible availability; outage/failure recovery time is minutes or hours (e.g., SCADA systems)

Business Important: requires high availability; outage/failure recovery time is less than 24 hours

Business Standard: default category, most systems will fit this category; does not require high availability; outage/failure recovery time is less than 2 days

Business Historical; does not require high availability; outage/failure recovery time is 2-5 days (e.g., storage systems)

Cell: B27
Comment: Measures the degree of change/impact to the organization. Higher numbers imply greater need for change management, training, and number of new/modified business processes.

Cell: B28
Comment: A measure of the total effort required to formally train all users, considering that multiple users may be trained concurrently (e.g., classroom)

Cell: C28
Comment: Low = <7 Hours of Deliverable Content
Medium = 8-14 Hours of Deliverable Content
High = >14 Hours of Deliverable Content

Cell: B29
Comment: The PG&E Lines of Business are:

Energy Delivery
Engineering & Operations
Customer Care
Generation
Energy Procurement
Finance
HR
Risk & Audit
Shared Services

Pacific Gas and Electric
3/30/2010

Pacific Gas and Electric Company

Application Development Preliminary Project Costing Checklist

	Legend
	Enterable/Modifiable
	Overwritten
	Not Updatable
	Default Value

Date Checklist Completed:	2/11/2009
ITWR # (if applicable):	0
Proposal Description:	International Financial Reporting Standards (IFRS/newGL) - 1 of 2
Client Portfolio Lead:	Darin Lemos
Anticipated Start Date of Project (MM/DD/YYYY):	6/15/2010
Anticipated End Date of Project (MM/DD/YYYY):	12/31/2010

		Weight
PG&E ISTS Labor Blended Daily Rate per Resource	$941.16	70%
External ISTS Labor Blended Daily Rate per Resource	$1,481.52	30%
COMBINED ISTS BLENDED DAILY RATE PER RESOURCE	$1,103.27	

		Weight
PG&E Business Labor Blended Daily Rate per Resource	$995.28	100%
External Business Labor Blended Daily Rate per Resource	$1,992.69	0%
COMBINED BUSINESS BLENDED DAILY RATE PER RESOURCE	$995.28	

APPLICATION DEVELOPMENT LABOR

PRIMARY COST CRITERIA	COMMENTS / ASSUMPTIONS	PRELIMINARY EFFORT (DAYS)			PRELIMINARY COST		
		LOW	MID	HIGH	LOW	MID	HIGH
ISTS APPLICATION DEVELOPMENT							
ISTS Application Development Labor Days (Project Management through Service Introduction/Deployment), including Middleware, Integration, Configuration, etc.	(You Must Enter An Assumption)	368	490	613	$405,451	$540,601	$675,752
	Default Calculated Labor Days:	368	490	613	$405,451	$540,601	$675,752
PG&E BUSINESS	% of App Dev Labor						
PG&E Business Labor	20%	(Default = 20% of App Dev Labor)	74	98	123	$73,153	$97,537	$121,922
TECHNICAL ARCHITECTURE	% of App Dev Labor						
Technical Architecture Labor Days (Analyze/Design/Build/Test) for Development, Execution, and Operations environments necessary to support the Application.	10%	(Default based on Number of Users Impacted)	37	49	61	$40,545	$54,060	$67,575
USER TRAINING & PERFORMANCE SUPPORT	% of App Dev Labor						
User Training and Performance Support Labor Days (Analyze/Design/Build/Test) for the effort to create Training Material and Communications Plan to support the Application rollout.	10%	(Default based on Anticipated Amount of Formal User Training)	37	49	61	$40,545	$54,060	$67,575
	LABOR DAYS SUBTOTAL:	515	686	858	$559,694	$746,259	$932,824
	Project Complexity and Size Factor:	51	69	86	$55,969	$74,626	$93,282
	TOTAL LABOR DAYS:	566	755	943	$615,664	$820,885	$1,026,106

Application Development Preliminary Project Costing Checklist

	Default Value

Date Checklist Completed:	2/11/2009
ITWR # (if applicable):	0
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HARDWARE LABOR, MATERIALS, AND OTHER COSTS

PRIMARY COST CRITERIA	COMMENTS / ASSUMPTIONS	PRELIMINARY COST		
		LOW	MID	HIGH
INFRASTRUCTURE				
Hardware, Network, etc Costs (includes Labor)	(Default based on User Impact)	$50,000	$65,000	$80,000
System/Data Availability and Recovery	(Default Based on System Criticality and Data Protection/Retention Requirements)	$50,000	$65,000	$80,000
USER TRAINING				
User Training Materials Costs	(Default Based on Anticipated Amount of Formal User Training)	$8,500	$14,875	$21,250
MISCELLANEOUS COSTS				
Miscellaneous/Additional Costs (Licensing, Overheads - Facilities Costs, Telephony, etc)	SAP Migration Service	$142,000	$192,000	$242,000
	COST SUBTOTAL:	$250,500	$336,875	$423,250
	Project Complexity and Size Factor:	$25,050	$33,688	$42,325
	TOTAL HARDWARE, MATERIALS, AND OTHER COSTS:	$275,550	$370,563	$465,575

	LOW	MID	HIGH
TOTAL PRELIMINARY PROJECT COST:	$891,000	$1,191,000	$1,492,000

	Project Start Date	Project End Date	work effort in days	duration in days	PM %	PM Days	Plan thru Deploy Days
	6/15/2010	12/31/2010	943	199	10%	94	849

Stage	Start Date	End Date	Typical Work Allocation Percentage by Stage	% of stage effort (do not change)	Override stage effort (override Col C)	Stage Work Days	% stage duration	Duration in days	Net Work Days
Project Mgmt	6/15/2010	12/31/2010		8%	8%	94	8%	16	144
Plan	6/15/2010	6/30/2010	1-5%	8%	8%	68	8%	12	12
Analyze	6/30/2010	7/20/2010	5-10%	10%	10%	85	10%	20	15
Design	7/20/2010	8/29/2010	15-35%	20%	20%	170	20%	40	29
Build	8/29/2010	10/28/2010	25-60%	30%	30%	255	30%	60	44
Test	10/28/2010	12/7/2010	10-25%	20%	20%	170	20%	40	29
Deploy	12/7/2010	12/31/2010	3-5%	12%	12%	102	12%	24	19
				100%	100%	943.25	100%	199	

FTE's

resource pools:		Roles Percentage Total	Workday Total	various Business Analyst	various Project Manager	various Application Designer	Env CoE Configuration Manager	various App Services Programmer	Software QA Test Lead & Tester	DBA CoE Database Administrator/ Data Architect	SP&A Technical Architect	Infrastructure Technical Architect	various App Services Technical Architect	Env CoE Technical Architect	Env CoE Technical Operations Support Specialist	various Integration Solution Architect & Designer	Business Human Performance Architect Training Administrator	Deployment CoE Deployment Lead & Specialist Service Introduction Lead	Max FTE's (rounded to the nearest .5 fte)
			943																
Project Mgmt		100.0%	94	3.0	0.5	1.0	-	1.5	3.0	0.5	1.0	1.0	1.0	0.5	0.5	-	2.0	3.0	0.5
Plan		100.0%	68	3.0	0.5	-	-	-	-	-	-	-	0.5	-	-	-	-	0.5	3.0
Analyze		100.0%	85	1.0	-	0.5	-	-	0.5	-	1.0	0.5	0.5	0.5	-	-	1.5	-	1.5
Design		100.0%	170	0.5	-	1.0	-	-	-	-	1.0	1.0	1.0	-	-	-	2.0	-	2.0
Build		100.0%	255	-	-	0.5	-	1.5	0.5	0.5	-	0.5	0.5	-	-	-	1.5	-	1.5
Test		100.0%	170	-	-	0.5	-	0.5	3.0	0.5	-	0.5	0.5	-	-	-	1.5	-	3.0
Deploy		100.0%	102	-	-	0.5	-	-	-	0.5	-	0.5	0.5	-	0.5	-	0.5	3.0	3.0