	A	В	С	D		К	N	0	Р
1		Pacific Gas and					Legend		
3	-01	Electric Company [®]					Enterab	le/Modifiable	
4	186.* 5.35**						Overwri Not Upo		
	Applicat	ion Development Project Complexity and Sizing Worksheet					Default		
7									
9		Date Checklist Completed:	3/1/2009						
10		ITWR # (if applicable):							
11		Proposal Description:			Learning Management				
12		Client Portfolio Lead:	Brent Altman						
13		Anticipated Start Date of Project (MM/DD/YYYY):	1/1/2009						
14		Anticipated End Date of Project (MM/DD/YYYY):	12/31/2010						
15									
16	Please pr	ovide a response for ALL criteria! The responses provided impact t	he Total Score for the prop	posed projec	t, which helps determine the Preliminary Project Cost.				
17	#	CRITERIA	RESPONSE		ASSUMPTIONS	SCORE			
18	1	Expected duration of the project (in weeks):	104		(Calculated Based on Anticipated Start/End Dates, above)	4			
19	2	Anticipated ISTS Application Development Labor Days				FALSE			
20	3	How many 3rd party vendor firms will provide services for this project?	1-2		(Please Enter An Assumption)	4			
21	4	If the technology is known, has it been successfully implemented before at PG&E?	Yes		(Please Enter An Assumption)	6			
22	5	How well are the Requirements for this proposal known by the Business (have the Requirements been documented)?	High		(Please Enter An Assumption)	3			
23	6	Is there a pre-existing PG&E support group to maintain/support the application?	Yes		(Please Enter An Assumption)	2			
24	7	What is the level of dependency on other projects (e.g. resources, deliverables, etc)?	Low		(Please Enter An Assumption)	1			
25	8	Will the system exchange or provide data to any entities outside of PG&E (suppliers, customers, regulatory agencies, etc)?	No		(Please Enter An Assumption)	4			
26	9	What is the level of criticality of the system to the users and PG&E customers?	Business Importa	nt	(Please Enter An Assumption)	9			
27	10	How many internal PG&E users will be impacted by this project?	>500		(Please Enter An Assumption)	9			
28	11	What is the anticipated amount of formal training that will be required for PG&E users?	Medium		(Please Enter An Assumption)	6			
29	12	How many PG&E Lines of Business (LOBs) will be impacted by the project?	4 or More		(Please Enter An Assumption)	9			
30					TOTAL SCORE:	57			

Pacific Gas and Electric 3/30/2010

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

Pacific Gas and Electric 3/30/2010

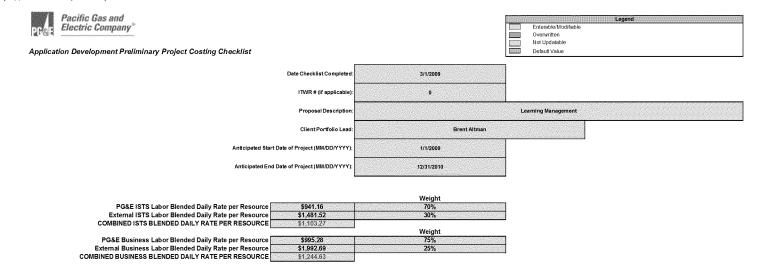
Cell: B28 Comment: A measure of the total effort required to formally train all users, considering that multiple users may be trained concurrently (e.g., classroom)

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



APPLICATION DEVELOPMENT LABOR

			P	RELIMINARY EFFORT (DAY	S)		PRELIMINARY COST	
PRIMARY COST CRITERIA ISTS APPLICATION DEVELOPMENT	CO	DMMENTS / ASSUMPTIONS	LOW	MID	HIGH	LOW	MID	HIGH
ISTS Application Development Labor Days (Project Management through Service Introduction/Deployment), including Middleware, Integration, Configuration, etc.	(You Must Enter An Assumption)		1,200	1,500	1,800	\$1,323,922	\$1,654,902	\$1,985,882
		Default Calculated Labor Days:	0	0	0	\$1,323,922	\$1,654,902	\$1,985,882
PG&E BUSINESS	% of App Dev Labor	Friday Friday						
PG&E Business Labor	20%	(Default = 20% of App Dev Labor)	240	300	360	\$298,712	\$373,390	\$448,068
TECHNICALARCHITECTURE	% of App Dev Labor						1	1
Technical Architecture Labor Days (Analyze/Design/Build/Test) for Development, Execution, and Operations environments necessary to support the Application.	30%	(Default based on Number of Users Impacted)	360	450	540	\$397,176	\$496,471	\$595,765
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.	20%	(Default based on Anticipated Amount of Formal User Training)	240	300	360	\$264,784	\$330,980	\$397,176
		LABOR DAYS SUBTOTAL:	2,040	2,550	3,060	\$2,284,594	\$2,855,743	\$3,426,891
		Project Complexity and Size Factor:	408	510	612	\$456,919	\$571,149	\$685,378
		TOTAL LABOR DAYS:	2,448	3,060	3,672	\$2,741,513	\$3,426,891	\$4,112,270

SAP Learning ManagementEstimate-121009 Page4 of 6

Application Development Preliminary Project Costing Checklist			Default Value
Date Checklist Complete	d: 3/1/2009		
ITWR # (if applicabl)). O		
Proposal Descriptio	n:	Le	aming Management
Client Portfolio Lea	d: Brent Altman		

HARDWARE LABOR, MATERIALS, AND OTHER COSTS

·····,·····,·····,·····,·····			PRELIMINARY COST	
PRIMARY COST CRITERIA	COMMENTS / ASSUMPTIONS	LOW	MID	HIGH
INFRASTRUCTURE	Ears			
Hardware, Network, etc Costs (includes Labor)	(Default based on User Impact)	\$800,000	\$1,050,000	\$1,300,000
System/Data Availability and Recovery	(Default Based on System Criticality and Data Protection/Retention Requirements)	\$600,000	\$787,500	\$975,000
USER TRAINING	-			
Jser Training Materials Costs	(Default Based on Anticipated Amount of Formal User Training)	\$300,000	\$600,000	\$900,000
MISCELLANEOUS COSTS	E20			
/liscellaneous/Additional Costs (Licensing, Overheads - Facilities Costs, Telephony, .tc)	Temporary Training Equipment Lease	\$50,000	\$250,000	\$450,000
	COST SUBTOTAL:	\$1,750,000	\$2,687,500	\$3,625,000
	Project Complexity and Size Factor:	\$350,000	\$537,500	\$725,000
	TOTAL HARDWARE MATERIALS AND OTHER COSTS	\$2 100 000	\$3,225,000	\$4 350 000

 LOW
 MID
 HIGH

 TOTAL PRELIMINARY PROJECT COST:
 \$4,842,000
 \$6,652,000
 \$8,462,000

SAP Learning ManagementEstimate-121009 Page5 of 6

	Deploy	-	B	Design	Anab	P	Project Mgmt					1/1/2009	Date	Project Start	
	loy 10/4/2010				yze 2/28/2009	Plan 1/1/2009	gmt 1/1/2009		Stage Start Date			12/31/2010		art Project End	
				10/5/2009					End Date			⊢	<u> </u>		
	12/31/2010						12/31/2010					3,672	in days	work effort duration in	
	3-5%	0-25%	5-60%	15-35%	-10%	1-5%			Typical Work Allocation Percentage by Stage			729		ation in	
100%	12%	20%	30%	20%	10%	8%			% of stage effort (do not change)			10%	PM % P		
100%	12%	20%	30%	20%	10%	8%			Override stage effort (override Col C)			367	PM Days		
3672 10	397 1		991 3			264 8	367		Stage Work Days			3,305	Days	thru Deplov	0
100%	12%			20%		8%			% stage duration						
729	87	146	219	146	73	58			Duration in days						
	65	105	157	105	52	42	522		Net Work Days						
									1	pools:	resource	1	1		
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		Percentage Total			Roles			
	397	661	991	661	330	264	367	3,672	Workday Total			Vorkday			
	•	1	-	1.0	1.5	3.0	-	3.0	Business Analyst	various					
		I	T	1	T	1	0.5	0.5	Project Manager	various					
	0.5	1	0.5	1.0	0.5	1	-	1.0	Application Designer	various E					
	•	ı	•	r		1	•	5	Configuration Manager	Env CoE					
		0.5	2.0	0.5		1		2.0	Programmer	Services		Vations	ĺ		
	•	3.0	1.0	0.5		ī	•	3.0	Test Lead & Tester	QA	Software				
	0.5	1	0.5	1		ł		0.5	Database Administrator/ Data Architect	C₀E	DBA				
	-	1		1		1.5		1.5	Technical Architect	SP&A		ש			
		0.5	0.5	1.0	1.0	1	-	1.0	Technical Architect	cture	Infrastru	FTE's			
	0.5	0.5	0.5	1.0	1.0	0.5	-	1.0	Technical Architect	Services	App	Various			
		1		1	0.5	1		0.5	Technical Architect	Env CoE					
	0.5	1	1	1		ı	-	0.5	Technical Operations Support Specialist	CoE	Env				
	-	1		1	-	1		1	Integration Solution Architect & Designer	various	_				
	0.5	1.5	2.0	2.0	2.0	0.5	-	2.0	Human Performance Architect Training Administrator	Business					
	3.5	1	-	1		0.5	-	3		CoE	Deployment				
			h -		h -			<u>ບ</u> າ	Max FTE's (rounded to the nearest .5				2000		
	ω 5	30	2.0	2.0	2.0	3.0	0.5		fte)						