	A	В	С	D	I	К	N	0	P
1		Pacific Gas and				S.1186983	Lagard		
3		Electric Company*					Legend Enterab	le/Modifiable	
4	1M1.68 = 1						Overwri		
5	Annlicat	ion Development Project Complexity and Sizing Worksheet					Not Upo Default		
7	чррисас	ion Development Project Complexity and Sizing Worksheet				Beeseg	Delault	Value	
8									
9		Date Checklist Completed:	3/1/2009						
10		ITWR # (if applicable):							
11		Proposal Description:		E	nterprise Knowledge Management				
12		Client Portfolio Lead:	Brent Altman						
13		Anticipated Start Date of Project (MM/DD/YYYY):	1/1/2011						
14		Anticipated End Date of Project (MM/DD/YYYY):	12/31/2012						
15									
16 F	Please pr	ovide a response for ALL criteria! The responses provided impact to	he Total Score for the pro	posed project	, which helps determine the Preliminary Project Cost.				
17	#	CRITERIA	RESPONSE		ASSUMPTIONS	SCORE			
18	1	Expected duration of the project (in weeks):	104	100	(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)?	Medium		(Please Enter An Assumption)	6			
23	6	Is there a pre-existing PG&E support group to maintain/support the application?	Yes		(Please Enter An Assumption)	2			
24		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 Standa	rd	(Please Enter An Assumption)	6			
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			

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Cell: B18

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

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)?

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?

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.

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

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

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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

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Application Development Preliminary Project Costing Checklist

ecklist			Enterable/Modifiable Overwritten Not Updatlable Default Value
Date Checklist Completed:	3/1/2009		
ITWR # (if applicable):	0		
Proposal Description:		Enterp	rise Knowledge Management
Proposal Description: Client Portfolio Lead:	Brent Altman	Enterp	rise Knowledge Management
·		Enterp	rise Knowledge Management

		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	Weight 75%
PG&E Business Labor Blended Daily Rate per Resource External Business Labor Blended Daily Rate per Resource	\$995.28 \$1,992.69	

APPLICATION DEVELOPMENT LABOR

APPLICATION DEVELOPMENT LABOR								
			P	RELIMINARY EFFORT (DA	YS)		PRELIMINARY COST	
PRIMARY COST CRITERIA	CC	MMENTS / ASSUMPTIONS	LOW	MID	HIGH	LOW	MID	HIGH
ISTS APPLICATION DEVELOPMENT								
STS Application Development Labor Days (Project Management through Service ntroduction/Deployment), including Middleware, Integration, Configuration, etc.	(You	Must Enter An Assumption)	150	225	450	\$165,490	\$248,235	\$496,471
		Default Calculated Labor Days:	0	0	0	\$165,490	\$248,235	\$496,471
PG&E BUSINESS	% of App Dev Labor	je-						
PG&E Business Labor	20%	(Default = 20% of App Dev Labor)	30	45	90	\$37,339	\$56,008	\$112,017
TECHNICAL ARCHITECTURE	% of App Dev Labor	MODES						
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)	45	68	135	\$49,647	\$74,471	\$148,941
USER TRAINING & PERFORMANCE SUPPORT	% of App Dev Labor	F ²⁷ (100)	nining (25) Young Manual Manual Constitution of the Constitution o	**************************************	Hard to the state of the state			
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)	30	45	90	\$33,098	\$49,647	\$99,294
		LABOR DAYS SUBTOTAL:	255	383	765	\$285,574	\$428,361	\$856,723
		Project Complexity and Size Factor:	51	77	153	\$57,115	\$85,672	\$171,345
		TOTAL LABOR DAYS:	306	459	918	\$342,689	\$514,034	\$1,028,067

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Application Development Preliminary Project Costing Checklist

			Default Value
Date Checklist Completed:	3/1/2009		
ITWR # (if applicable):	0		
Proposal Description:	l	Enterprise	r Knowledge Management
Client Portfolio Lead:	Brent Altman		

HARDWARE LABOR, MATERIALS, AND OTHER COSTS

ARDWARE LABOR, MATERIALS, AND OTHER COSTS			PRELIMINARY COST	ш ні такишан
PRIMARY COST CRITERIA	COMMENTS / ASSUMPTIONS	LOW	MID	HIGH
INFRASTRUCTURE	IN.			
ardware, Network, etc Costs (includes Labor)	(Default based on User Impact)	\$800,000	\$1,050,000	\$1,300,000
/stem/Data Availability and Recovery	(Default Based on System Criticality and Data Protection/Retention Requirements)	\$400,000	\$525,000	\$650,000
USER TRAINING				
ser Training Materials Costs	(Default Based on Anticipated Amount of Formal User Training)	\$14,875	\$21,250	\$27,625
MISCELLANEOUS COSTS	To the state of th			Z Laura antica z z zani manani mini na
liscellaneous/Additional Costs (Licensing, Overheads - Facilities Costs, Telephony, tc)	(You Must Enter An Assumption)	\$0	\$0	\$0
	COST SUBTOTAL:	\$1,214,875	\$1,596,250	\$1,977,625
	Project Complexity and Size Factor:	\$242,975	\$319,250	\$395,525
	TOTAL HARDWARE, MATERIALS, AND OTHER COSTS:	\$1,457,850	\$1,915,500	\$2,373,150

	LOW	MID HIGH
TOTAL PRELIMINARY PROJECT COST:	\$1,801,000	\$2,430,000 \$3,401,000

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Dobioy	Test	Build	Design	Analyze	Plan	Project Mgmt		Stage		1/1/2011	Project Start Date
Г	10/4/2012				1/1/2011	1/1/2011		Start Date		12/31/2012	Project End Date
12/3/1/2012	10/4/2012	5/11/2012	10/5/2011	5/12/2011	2/28/2011	12/31/2012		End Date		918	work effort duration in in days days
0-070	10-25%	25-60%	15-35%	5-10%	1-5%			Typical Work Allocation Percentage by Stage		730	duration in days
100%	20%	30%	20%	10%	8%			% of stage effort (do not change)		10%	PM %
100%	20%	30%	20%	10%	8%			Override stage effort (override Col C)		92	PM Days [
L	oo 165	L		83	66	92		Stage Work Days		826	thru Deploy Days
100%	20%	30%	20%	10%	8%		_	% stage duration			
730	88	219	146	73	58			Duration in days			
9	105 63	158	105	54	41	521		Net Work Days			
									resource pools:]	I
100.076	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		Percentage Total		Roles	
9	165	248	165	83	66	92	918	Workday Total		Vorkday	
	1	-	1	0.5	1.0	-	1.0	Business Analyst	various		
		-	1			-	1	Project Manager	various		
	1		0.5	-	ı	-	0.5	Application Designer	various		
		-	1		,		ı	Configuration Manager	Env CoE		
-			1	-	ı	-	0.5	Programmer	App Services		
		0.5		-	(6)300 (6	-		2-10-10-20-20-20-20-20-20-20-20-20-20-20-20-20		No.	
			-		1		1.0	Test Lead & Tester	Software QA		
-	1.0				1		1.0	Test Lead & Tester Database Administrator/ Data Architect	Software DBA QA CoE		
	1.0	-	1				1.0 - 0.5	Database Administrator/			
	1:0		1				ı.	Database Administrator/ Data Architect	DBA CoE	FTE's	
	1.0				- 0.5		- 0.5	Database Administrator/ Data Architect Technical Architect	DBA III		
	1.0		1		- 0.5 -		- 0.5	Database Administrator/ Data Architect Technical Architect Technical Architect	DBA Infrastru CoE SP&A cture		
	1.0		1 1		- 0.5		- 0.5	Database Administrator/ Data Architect Technical Architect Technical Architect Technical Architect	DBA Infrastru App CoE SP&A cture Services		
	10		i i i i i i i i i i i i i i i i i i i		- 0.5		- 0.5	Database Administrator/ Data Architect Technical Architect Technical Architect Technical Architect Technical Architect Technical Operations	DBA Infrastru App CoE SP&A cture Services Env CoE		
	10				- 0.5		- 0.5	Database Administrator/ Data Architect Technical Architect Technical Architect Technical Architect Technical Architect Technical Operations Support Specialist Integration Solution	DBA Infrastru App Env CoE SP&A cture Services Env CoE CoE		
	1.0				- 0.5		- 0.5 · · · · · · · · · · · · · · · · · · ·	Database Administrator/ Data Architect Technical Architect Technical Architect Technical Architect Technical Architect Technical Architect Technical Operations Support Specialist Integration Solution Architect & Designer Human Performance Architect	DBA Infrastru App Env CoE SP&A cture Services Env CoE CoE various		