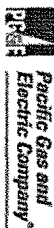


Project Complexity and Sizing

A	B	C	D	I	K	N	O	P
1	Pacific Gas and Electric Company*							
2								
3								
4								
5								
6	Application Development Project Complexity and Sizing Worksheet							
7								
8								
9	Date Checklist Completed:	8/24/2009						
10	ITWR # (if applicable):	44668						
11	Proposal Description:	Enterprise Mobile (1 of 2) (EM Rel 3 will further enhance the mobile and dispatch platform deployed in EM Rel 2, including additional functionality)						
12	Client Portfolio Lead:	Sameh Ali						
13	Anticipated Start Date of Project (MM/DD/YYYY):	7/1/2010						
14	Anticipated End Date of Project (MM/DD/YYYY):	6/30/2011						
15								
16	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.							
17	#	CRITERIA	RESPONSE	ASSUMPTIONS	SCORE			
18	1	Expected duration of the project (in weeks):	52	(Calculated Based on Anticipated Start/End Dates above)	2			
19	2	Anticipated ISTS Application Development Labor Days	4,481	(Please Enter An Assumption)	5			
20	3	How many 3rd party vendor firms will provide services for this project?	0	(Please Enter An Assumption)	2			
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)?	Medium	(Please Enter An Assumption)	2			
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 Critical	(Please Enter An Assumption)	12			
27	10	How many internal PG&E users will be impacted by this project?	>500	(Please Enter An Assumption)	5			
28	11	What is the anticipated amount of formal training that will be required for PG&E users?	Low	(Please Enter An Assumption)	3			
29	12	How many PG&E Lines of Business (LOBs) will be impacted by the project?	4 or More	(Please Enter An Assumption)	5			
30					TOTAL SCORE:	60		



Application Development Preliminary Project Costing Checklist

Date Checklist Completed: 12/20/08

(TRR # (if applicable)): 4484

Project Description: Enterprise Mobile (1 of 3) EIR Ph 1 with further enhance the mobile and desktop platform deployed in EIR Ph 2, including additional functionality

Client Portfolio Lead: [Redacted]

Anticipated Start Date of Project (MM/DD/YYYY): 7/1/2010

Anticipated End Date of Project (MM/DD/YYYY): 6/30/2011

PG&E ISTS Labor Blended Daily Rate per Resource	\$341.16	Weight	65%
External ISTS Labor Blended Daily Rate per Resource	\$1,381.12	Weight	45%
COMBINED ISTS BLENDED DAILY RATE PER RESOURCE	\$1,024.92		
PG&E Business Labor Blended Daily Rate per Resource	\$395.28	Weight	75%
External Business Labor Blended Daily Rate per Resource	\$1,992.93	Weight	25%
COMBINED BUSINESS BLENDED DAILY RATE PER RESOURCE	\$1,224.83		

APPLICATION DEVELOPMENT LABOR

PRIMARY COST CRITERIA	COMMENTS / ASSUMPTIONS	PRELIMINARY EFFORT (DAYS)			PRELIMINARY COST		
		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) Default Calculated Labor Days:	3,361	4,451	5,601	\$3,356,210	\$6,204,847	\$6,633,684
PG&E Business Labor	(Default = 20% of App Dev Labor)	672	896	1,120	\$936,530	\$1,116,440	\$1,394,300
TECHNICAL ARCHITECTURE	(Default based on Number of Users Impacted)	1,008	1,344	1,680	\$1,194,064	\$1,492,084	\$1,990,168
Technical Architecture Labor Days (Analyze/Design/Build/Tests) for Development, Execution, and Operations environments necessary to support the Application.							
USER TRAINING & PERFORMANCE SUPPORT	(Default based on Anticipated Amount of Formal User Training)	336	448	560	\$396,024	\$490,096	\$624,384
User Training and Performance Support Labor Days (Analyze/Design/Build/Tests) for the effort to create Training Material and Communications Plan to support the Application rollout.							
LABOR DAYS SUBTOTAL:		6,477	7,179	8,962	\$8,008,824	\$16,446,168	\$19,581,487
Project Complexity and Size Factor:		1.078	1.454	1.792	\$1,281,728	\$1,709,055	\$2,136,291
TOTAL LABOR DAYS:		6,485	8,604	10,754	\$7,889,048	\$18,155,193	\$21,717,778

Legend
Emphasis/Modifiable
Overwritten
Not Updateable
Default Value

Cost Planning CoE
 Preliminary Application Development Project Cost Checklist
 Application Development Preliminary Project Costing Checklist

Default Value

Date Checklist Completed: 6/24/2010
 ITMR # (if applicable): 44018
 Proposal Description: Enterprise Module (1 of 2) for 2 will further enhance the module and display platform (approved in EIR Rev 2, including additional functionality)
 Client Portfolio Lead: Zanele Ali

HARDWARE LABOR, MATERIALS, AND OTHER COSTS

PRIMARY COST CENTER / INFRASTRUCTURE	COMMENTS/ASSUMPTIONS	PRELIMINARY COST		
		LOW	MID	HIGH
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)	\$800,000	\$1,050,000	\$1,300,000
User Training Materials Costs	(Default Based on Anticipated Amount of Formal User Training)	\$5,500	\$14,875	\$21,250
Miscellaneous/Additional Costs (Licensing, Overheads - Facilities Costs, Telephony, etc)	(You Must Enter/An Assumption)	\$0	\$0	\$0
COST SUBTOTAL:		\$1,605,500	\$2,114,875	\$2,621,250
Project Complexity and Size Factor:		\$321,000	\$422,975	\$574,250
TOTAL HARDWARE, MATERIALS, AND OTHER COSTS:		\$1,926,500	\$2,537,850	\$3,195,500

TOTAL PRELIMINARY PROJECT COST:	LOW	MID	HIGH
	\$9,621,000	\$12,792,000	\$16,963,000

Project Start Date	7/1/2010	Project End Date	6/30/2011	work effort in days	10,754	duration in days	364	PM %	10%	PM Days	1,075	Plan thru Deploy Days	9,679
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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	7/1/2010	6/30/2011				1075			281
Plan	7/1/2010	7/30/2010	1-5%	8%	0%	774	9%	28	22
Analyze	7/30/2010	9/4/2010	5-10%	10%	10%	998	10%	38	28
Design	9/4/2010	11/6/2010	15-35%	20%	20%	1938	20%	73	52
Build	11/6/2010	3/6/2011	25-80%	30%	30%	2904	30%	109	79
Test	3/6/2011	5/17/2011	10-25%	20%	20%	1898	22%	73	52
Deploy	5/17/2011	6/30/2011	3-5%	12%	12%	1181	12%	44	33
				100%	100%	10754.4	100%	364	364

Roles	workdays	resource points
Percentage Total	10,754	100.0%
Workday Total	1,075	100.0%
	888	100.0%
	1,938	100.0%
	2,904	100.0%
	1,898	100.0%
	1,181	100.0%

Resource	workdays	resource points	FTEs
Business Analyst	7.5	7.5	0.075
Project Manager	4.0	4.0	0.04
Application Designer	6.5	6.5	0.065
Configuration Manager	2.0	2.0	0.02
Programmer	11.0	11.0	0.11
Test Lead & Tester	18.5	18.5	0.185
Database Administrator/ Data Archited	2.0	2.0	0.02
Technical Architect	7.0	7.0	0.07
Technical Architect	5.0	5.0	0.05
Technical Archited	3.0	3.0	0.03
Technical Archited	2.0	2.0	0.02
Technical Archited	2.0	2.0	0.02
Technical Archited	1.0	1.0	0.01
Technical Operators Support Specialist	3.5	3.5	0.035
Integration Solution Architect & Designer	1.0	1.0	0.01
Human Performance Architect Training Administrator	11.0	11.0	0.11
Deployment Lead & Specialist Service Introduction Lead	4.0	4.0	0.04
	18.0	18.0	0.18
Max FTEs (rounded to the nearest 0.05)	19.0	19.0	0.19

Project Complexity and Sizing

	A	B	C	D	E	F	G	H	I	J	K	N	O	P	
1		Pacific Gas and Electric Company													
2															
3			Legend												
4			<input type="checkbox"/> Enterable/Modifiable												
5			<input type="checkbox"/> Overwritten												
6	Application Development Project Complexity and Sizing Worksheet														
7															
8															
9		Date Checklist Completed:	8/25/2009												
10		ITWR # (if applicable):	36235												
11		Proposal Description:	Enterprise Mobile (2 of 2)												
12		Client Portfolio Lead:	Sameh Ali												
13		Anticipated Start Date of Project (MM/DD/YYYY):	3/1/2009												
14		Anticipated End Date of Project (MM/DD/YYYY):	8/31/2010												
15															
16	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.														
17	#	CRITERIA	RESPONSE	ASSUMPTIONS	SCORE										
18	1	Expected duration of the project (in weeks):	78	(Calculated Based on Anticipated Start/End Dates, above)	4										
19	2	Anticipated ISTS Application Development Labor Days	8774	(Please Enter An Assumption)	6										
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?	No	(Please Enter An Assumption)	8										
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?	No	(Please Enter An Assumption)	3										
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 Critical	(Please Enter An Assumption)	12										
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?	Low	(Please Enter An Assumption)	3										
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:	70										

GRC2011-Ph-I_DR_DRA_208-Q04Atch02



Application Development Preliminary Project Costing Checklist

Legend	
Light Gray	Editable/Modifiable
Dark Gray	Overwritten
White	Not Updatable
Medium Gray	Default Value

Date Checklist Completed:	4/28/2008
ITWR # (if applicable):	3A238
Proposal Description:	Enterprise Mobile (2 of 2)
Client Portfolio Lead:	Barrett At
Anticipated Start Date of Project (MM/DD/YYYY):	3/1/2008
Anticipated End Date of Project (MM/DD/YYYY):	12/1/2010

		Weight
PG&E ISTS Labor Blended Daily Rate per Resource	\$941.16	55%
External ISTS Labor Blended Daily Rate per Resource	\$1,481.52	45%
COMBINED ISTS BLENDED DAILY RATE PER RESOURCE	\$1,184.32	
		Weight
PG&E Business Labor Blended Daily Rate per Resource	\$995.28	75%
External Business Labor Blended Daily Rate per Resource	\$1,992.69	25%
COMBINED BUSINESS BLENDED DAILY RATE PER RESOURCE	\$1,244.63	

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)	6,581	8,774	10,968	\$7,793,431	\$10,391,241	\$12,888,052
	Default Calculated Labor Days:	6,581	8,774	10,968	\$7,793,431	\$10,391,241	\$12,888,052
PG&E BUSINESS	% of App. Dev. Labor						
PG&E Business Labor	20% (Default = 20% of App Dev Labor)	1,316	1,755	2,194	\$1,838,081	\$2,194,051	\$2,730,101
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.	30% (Default based on Number of Users Impacted)	1,974	2,632	3,290	\$2,344,029	\$3,117,472	\$3,886,718
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)	658	877	1,097	\$779,343	\$1,039,124	\$1,295,305
	LABOR DAYS SUBTOTAL:	10,529	14,038	17,349	\$12,646,884	\$16,731,819	\$20,914,774
	Project Complexity and Size Factor:	3.159	4.212	5.264	\$3,764,659	\$6,019,548	\$8,274,432
	TOTAL LABOR DAYS:	13,687	18,250	22,612	\$16,313,523	\$21,751,364	\$27,189,206

Cost Planning Code
 Preliminary Application Development Project Cost Checklist
 Application Development Preliminary Project Costing Checklist

Default Value

Date Checklist Completed:	4/22/2006
ITWR # (if applicable):	30325
Proposal Description:	Enterprise Mobile (2 of 2)
Client Portfolio Lead:	370001 AD

HARDWARE LABOR, MATERIALS, AND OTHER COSTS

PRIMARY COST CENTER INFRASTRUCTURE	COMMENTS/ASSUMPTIONS	PRELIMINARY COST		
		LOW	MID	HIGH
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]	\$800,000	\$1,050,000	\$1,300,000
User Training Materials Costs	[Default Based on Anticipated Amount of Formal User Training]	\$8,500	\$14,875	\$21,250
Miscellaneous/Additional Costs (Licensing, Overheads - Facilities Costs, Telephony, etc)	[You Must Enter An Assumption]	\$0	\$0	\$0
COST SUBTOTAL:		\$1,608,500	\$2,114,875	\$2,621,250
Project Complexity and Size Factor:		\$492,550	\$534,653	\$786,375
TOTAL HARDWARE, MATERIALS, AND OTHER COSTS:		\$2,091,050	\$2,749,528	\$3,407,625

TOTAL PRELIMINARY PROJECT COST:

LOW	MID	HIGH
\$18,405,000	\$24,507,000	\$30,697,000

Project Start Date	3/1/2009	Project End Date	8/31/2010	work effort in days	22,812	duration in days	548	PM %	100%	PM Days	2,281	Plan thru Deploy Days	20,531
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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	3/1/2009	8/31/2010				2281			392
Plan	3/1/2009	4/13/2009	1-5%	8%	8%	1642	8%	44	31
Analyze	4/13/2009	6/7/2009	5-10%	10%	10%	2053	10%	55	40
Design	6/7/2009	8/25/2009	15-35%	20%	20%	4108	20%	110	80
Build	8/25/2009	3/8/2010	25-60%	30%	30%	8159	30%	194	117
Test	3/8/2010	8/28/2010	10-25%	20%	20%	4108	20%	110	80
Deploy	8/28/2010	8/31/2010	3-5%	12%	12%	2484	12%	66	47
				100%	100%	22812	100%	548	

Roles	Workday Total	Percentage Total
	22,812	100.0%
	2,281	100.0%
	1,642	100.0%
	2,053	100.0%
	4,108	100.0%
	6,159	100.0%
	4,108	100.0%
	2,484	100.0%

Resource Position	Business Analyst	Project Manager	Application Designer	Configuration Manager	Programmer	Test Lead & Tester	Database Administrator/ Data Archivist	Technical Architect	Technical Architect	Technical Architect	Technical Architect	Technical Architect	Technical Operators Support Specialist	Integration Solution Architect & Designer	Human Performance Architect Training Administrator	Deployment Specialist Service Introduction Lead	Max FTE's (rounded to the nearest 0.5)
various	28.5	5.5	8.0	0.5	18.0	25.5	2.5	10.5	1.0	7.0	3.0	6.0	1.0	1.5	19.0	28.5	5.5
various	28.5	5.5	8.0	0.5	18.0	25.5	2.5	10.5	1.0	7.0	3.0	6.0	1.0	1.5	19.0	28.5	5.5
various	28.5	5.5	8.0	0.5	18.0	25.5	2.5	10.5	1.0	7.0	3.0	6.0	1.0	1.5	19.0	28.5	5.5
Env C&E	-	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
App Services	-	-	-	-	2.0	5.0	-	-	-	-	-	-	-	-	-	-	-
Software QA	-	-	-	-	2.0	5.0	-	-	-	-	-	-	-	-	-	-	-
CBA	-	-	-	-	-	2.5	2.5	-	-	-	-	-	-	-	-	-	-
SPBA	-	-	-	-	-	2.5	2.5	-	-	-	-	-	-	-	-	-	-
Infratructure	-	-	-	-	-	3.0	3.0	-	-	-	-	-	-	-	-	-	-
App Services	-	-	-	-	-	3.0	3.0	-	-	-	-	-	-	-	-	-	-
Env C&E	-	-	-	-	-	1.5	1.5	-	-	-	-	-	-	-	-	-	-
Env C&E	-	-	-	-	-	5.0	5.0	-	-	-	-	-	-	-	-	-	-
various	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Business	-	-	-	-	-	13.0	13.0	-	-	-	-	-	-	-	-	-	-
Deployment C&E	-	-	-	-	-	28.5	28.5	-	-	-	-	-	-	-	-	-	-
	28.5	5.5	8.0	0.5	18.0	25.5	2.5	10.5	1.0	7.0	3.0	6.0	1.0	1.5	19.0	28.5	5.5