#### PUBLIC VERSION



### Advanced Metering Infrastructure (AMI) Steering Committee Review

Confidential - Submitted Pursuant to PU Code Section 583

August 15, 2006



#### Public Version Pending Contingency Balancing

CC&B Servers	Units Description Processing Capacity Increase for V1.5 6 + 5 SUN V890's + IBM P55A's	Budget \$0	Comments Approved by SC, April 2006	Forecast Cost	Units	Savings Cost
AMI Servers	Units Description 8 IBM Unix Servers	Budget	Comments	Forecast Cost	Potentia Units 0	Savings Cost
DCSI	122 IBM Unix Server				76	
Hexagr	am 26 Dell Servers				0	
MBC DV	2 IBM Unix Servers				0	
IOC Infrastruct <u>Facilitie</u>	Description	Budget \$3,030	Comments.	Forecast Cost \$2,923	Potentia Units	LSavings Cost \$107
System Soliw	ire - Expense	Budget	Comments	Forecast	Potentia	l Savings
Oracle						
BEA				\$0		
AMI Sub Total				Net Pendir	ig Contingency	Balancing \$12,918
APPROVED U	SES FOR RISK-BASED ALLOWANCE FUND Original Contingency Amount			Cor	ntingency Bala	nce \$128,800
	Approved Draw-downs					
	[1]					
	Net Remaining Balance				°.∎	\$128,800
	Note: No Drawdowns have been approv	/ed to date				

Advanced Metering Infrastructure Initiative

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Confidential - Submitted Pursuant to PU Code Section 583

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#### Publi sion

## SmartMeter<sup>®</sup>

### SmartMeter™/CC&B Initiatives September Status Update

Confidential - Submitted Pursuant to PU Code Section 583

September 12, 2006

Publ sion

SmartMeter<sup>™</sup>

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### **Pending Contingency Balancing**

			****			and the second	
	CC&B Seners	Units Description Processing Capacity Increase for V1.5	Budget	Comments Approved by SC, April 2006	Forecast Cost	Potential Savir Units	lgis Cost
	CC&B	6 + 5 SUN V890's + IBM P55A's	so	89989999999999999999999999999999999999		0	
	AMI Servers	Units Description	Budget	Comments	Forecast Cost	Potential Savir Units	and the second second second
	WACS	8 IBM Unix Servers	Budden		Costi	0	Cost
	DCSI	122 IBM Unix Server		,		76	
	Hexagram	26 Dell Servers				0	
	MBC DW	2 IBM Unix Servers				0	
	IOC Infrastructure			Comments	Forecast	Potential Savin	195
	Facilities	Description Power, Rack, Switches Network, Tape Drive, Labor	Budget \$3,030		Cost \$2,923	Units	Cost \$107
	System Software	- Expense		Comments	Forecast	Potential Savin	lgs
	Oracle		Budget				
	BEA						
	AMI Sub Total				Net Pending Co	ontingency Balar	ncing 2,918
		ES FOR RISK-BASED ALLOWANCE FUND			Conting	ency Balance	2,310
		Original Contingency Amount	addiaide inconserve	en e	oomiig		8,800
		Approved Draw-downs					
		[1]					
		Net Remaining Balance				\$12	8,800
:		Note: No Drawdowns have been approv	ed to date				
44	THICCODINH	Inthian					

SmartMeter™/CC&B Initiatives

Page 8

# SmartMeter<sup>™</sup>

### SmartMeter™/CC&B Initiatives Steering Committee Review

Confidential - Submitted Pursuant to PU Code Section 583

October 17, 2006

Publi sion



### **Additions to Pending Contingency**

millions

#### CC&B has completed work in Phase I – the Cordaptix 1.3 to CC&B 1.5 software upgrade

	Project team had to rely on more outside labor (SPL, Accenture) than original plan	\$3.0
-	Performance testing required more cycles than original estimate	\$2.5
	Project start/stop forced additional project restart expenditures	\$2.0
	Additional requirements and scoping work required for SM 1.0, CC&B Phase II	\$2.0
-	AFUDC & capitalized A&G required extended to later implementation date	\$1.4
-	Additional requirements and scoping work required for CC&B, Phase I	\$1.3
	CDx shortlist required incremental staffing; not in the original plan	<u>\$0.8</u>
	Sub-total	\$13.0
Smart	Meter 1.0 requirements work completed	
, ( <del></del>	IBM team additions to original scope of work to complete requirements	\$1.8
. Advante	EDS / WACS extended work on requirements / development	<u>\$1.0</u>
	Sub-total	\$2.8

Net project additional expenditures added to the pending contingency items: \$15.8

SB\_GT&S\_0493641

Publi sion



### **Pending Contingency Items**

Pending •	Contingency Items – prior balance Expenditures that were less than expected AMI Servers, IOC infrastructure, Oracle, BEA software	
• Ne	Expenditures that were more than expected CC&B performance enhancing Sun servers t prior pending contingency items favorable balance	(\$12.9M)
October •	additions to pending contingency items CC&B Phase I upgrade work completed <i>Testing, outside labor, expanded scope, AFUDC</i> & A&G	\$13.0M
• Ne	SmartMeter 1.0 expanded requirements work IBM, EDS – WACS additional requirements work t additions to pending contingency - unfavorable	
Ne	t balance in pending contingency items	\$2.9M

SmartMeter™/CC&B Initiatives

# SmartMeter\*

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#### SmartMeter™/CC&B Initiatives Status Update

November 2006



Publi sion

SmartMeter<sup>®</sup>

### Contingency Draw - AMI

Contingency - Beginning Balance \$129M \$(2.9M) October 06 approved contingency draw Net Balance......\$126.1M

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# Smart/Meter\*

SmartMeter™/CC&B Initiatives Status Update December 2006



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SB\_GT&S\_0493645

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### Contingency Draw - AMI

Contingency – Beginning Balance \$129M October 06 approved contingency draw \$(2.9M) \$126.1M Net Balance.....

# Smart/Meter<sup>®</sup>

SmartMeter<sup>™</sup>/CC&B Initiatives Status Update January 2007



Smart Meter\*

### **Contingency Draw - AMI**

AMI Continge	ency Reconciliation	(\$000)		Total	Notes
Business Case	Approved		\$	128,773	
PCRs Adopted by	Steering Committee	Workstream			
• • • • • • • • • • • • • • • • • • •	CC&B Phase 1	CC&B	\$	(1,550)	Performance enhancing Sun servers
	Savings on AMI Servers, IOC, Ora		\$		Approved at Oct 17, 2006 Steering Committee
	CC&B Phase 1	CC&B	ŝ	(11,000)	Approved at Oct 17, 2006 Steering Committee
	CC&B Phase 2	CC&B	\$	(2,000)	Approved at Oct 17, 2006 Steering Committee
PCR 06-0003	IBM #1 (No Contract increase)	<b>Business Process</b>	\$		Approved at Oct 17, 2006 Steering Committee
PCR 06-0004	IBM #1 (No Contract increase)	<b>Business Process</b>	\$		Approved at Oct 17, 2006 Steering Committee
PCR 06-0008	IBM #4	Business Process	\$		Approved at Oct 17, 2006 Steering Committee
	EDS WACS	System Integration	\$		Approved at Oct 17, 2006 Steering Committee
Total PCRs Add	pted by Steering Committee		\$	(2,856)	
Remaining Con	tingency		\$	125,918	
Anticipated PCRs					
	CC&B Smartmeter 1.0	CC&B	\$	(14,192)	
	CC&B Smartmeter 2.0	CC&B	\$	(4,824)	
	IBM Smartmeter 2.0	System Integration	\$		
	Expenses on Approved IBM PCRs	PMO	\$		
	Substation Installations	E-Network Install	\$	(8,500)	
Total Anticipate	d PCRs		\$	(35,845)	
Anticipated Contri	outions				
	IT Operations		\$	7,400	
	SM Operations		\$	8,900	
	Improved WAN (Fault Protection)		\$	6,500	
	Other		\$	1,200	
Total Anticipate	d Contributions		\$	24,000	
Total Expected	Draws/Contributions to Cont	ingency	\$	(11,845)	
	tingency Available		\$	114,073	

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# Smart/Veter\*\*

SmartMeter<sup>™</sup>/CC&B Initiatives Status Update

February 2007



Public Version Contingency Reconciliation					Smart Vieter		
SmartMeter	™ Contingency Reconciliation	(\$000)	onon continuing the means	Total	Notes		
Business Case	e Approved		\$	128,773			
PCR 06-0003 PCR 06-0004 PCR 06-0008	Steering Committee CC&B Phase 1 Savings on AMI Servers, IOC, Oracle CC&B Phase 1 CC&B Phase 2 IBM #1 (No Contract increase) IBM #1 (No Contract increase) IBM #4 Expenses on Approved IBM PCRs EDS WACS	Workstream CC&B Architechture CC&B CC&B Business Process Business Process Business Process PMO System Integration	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,550) (11,000) (2,000) (2,000) (3,185)	Approved April 2006 Approved at Oct 17, 2006		
Remaining Co	ntingency		\$	125,588			
Budgeted Conting	ency pending Approval CC&B Smartmeter 1.0 CC&B Smartmeter 2.0	CC&B CC&B	\$ \$	(14,192) (4,824) (19,016)	Pending IT budget review Pending IT budget review		
Balance of Co	ntingency Available		\$	106,573			

# Smart/Neter

SmartMeter<sup>™</sup>/CC&B Initiatives Status Update

March 2007



Smart Meter

### **Contingency Reconciliation**

AMI Contingency Reconciliation		(\$000)	Total	
Business Case	Approved		\$	128,773
PCRs Adopted by	Steering Committee	Workstream		
	CC&B Phase 1	CC&B	\$	(1,550)
	Savings on AMI Servers, IOC, Ora	acle Architechture	\$	
	CC&B Phase 1	CC&B	\$	(11,000)
	CC&B Phase 2	CC&B	\$	(2,000)
PCR 06-0003	IBM #1 (No Contract increase)	<b>Business Process</b>	\$	
PCR 06-0004	IBM #1 (No Contract increase)	Business Process	\$	
PCR 06-0008	IBM #4	Business Process	\$	
	EDS WACS	System Integration	\$	
Total PCRs Add	opted by Steering Committee		\$	(2,856)
Remaining Con	tingency		\$	125,918

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# Smart Meter<sup>®</sup>

SmartMeter<sup>™</sup>/CC&B Initiatives Status Update

April 2007





### **Contingency Reconciliation**

SM Contingency Reconciliation		<b>(\$00</b> 0)	Total		Notes
Business Case	Approved		\$	128,773	
PCR 06-0003 PCR 06-0004 PCR 06-0008	Steering Committee CC&B Phase 1 Savings on AMI Servers, IOC, Ora CC&B Phase 1 CC&B Phase 2 IBM #1 (No Contract increase) IBM #1 (No Contract increase) IBM #4 EDS WACS	Workstream CC&B acle Architechture CC&B CC&B Business Process Business Process Business Process System Integration	\$ \$ \$ \$ \$ \$ \$ \$	(1,550) (11,000) (2,000) (2,856)	Performance enhancing Sun servers Approved at Oct 17, 2006 Steering Committee Approved at Oct 17, 2006 Steering Committee
Remaining Con			\$	125,918	
Workstream Bu	Idget (Over) / Under allocation PG&E SI IBM SI PG&E Proc Development EDS / WACS Accenture / BEA Consultants CC&B Capital - CC&B Expense CC&B future releases Call Center: CC&B launch AHT DCSI Servers HW WACS - Purchase IBM PMO Management IBM Expenses	ns -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(6,926) (1,589) (18,043) 2,954 (11,225) (15) (57,153)	Approved by SM Steering Committee Approved by SM Steering Committee

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# Smart/Veter\*\*

SmartMeter<sup>™</sup>/CC&B Initiatives Steering Committee Update – May

May 11, 2007



SmartMeter<sup>®</sup>

## **Contingency Reconciliation**

SM Continge	ncy Reconciliation	(\$000)		Total	Notes
Business Case	Approved		\$	128,773	
PCR 06-0003 PCR 06-0004 PCR 06-0008	Steering Committee CC&B Phase 1 Savings on AMI Servers, IOC, Ora CC&B Phase 1 CC&B Phase 2 IBM #1 (No Contract increase) IBM #1 (No Contract increase) IBM #4 EDS WACS Septed by Steering Committee	Workstream CC&B acle Architechture CC&B CC&B Business Process Business Process Business Process System Integration	\$ \$ <b>\$</b> \$ \$ \$ \$ \$	(1,550) (11,000) (2,000) (2,856) (2,856) 125,918	Performance enhancing Sun servers Approved at Oct 17, 2006 Steering Committee Approved at Oct 17, 2006 Steering Committee
Workstream Bu	dget (Over) / Under allocation PG&E SI IBM SI PG&E Proc Development EDS / WACS Accenture / BEA Consultants CC&B Capital - CC&B Expense CC&B future releases Call Center: CC&B launch AHT DCSI Servers HW WACS - Purchase IBM PMO Management IBM Expenses	ns -	* * * * * * * * * * * * *	(6,926) (1,589) (18,043) 2,954 (11,225) (15) (57,153)	Approved by SM Steering Committee Approved by SM Steering Committee

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# Smart/Veter\*\*

SmartMeter<sup>™</sup>/CC&B Initiatives Steering Committee Update – June 2007





### **Contingency Reconciliation**

SmartMeter	Contingency Reconciliatio	n (\$000)	na na panjagaga a na kaongo ga sina	Total	Notes
Business Case	Approved		\$	128,773	
PCRs Adopted by PCR 06-0003 PCR 06-0004 PCR 06-0008	Steering Committee CC&B Phase 1 Savings on AMI Servers, IOC, Orac CC&B Phase 1 CC&B Phase 2 IBM #1 (No Contract increase) IBM #1 (No Contract increase) IBM #4 EDS WACS	CC&B CC&B Business Process Business Process Business Process	\$ \$ \$ \$ \$ \$ \$	(1,550) 14,500 (11,000) (2,000) (618) (621) (643)	Performance enhancing Sun servers Approved at Oct 17, 2006 Steering Committee Approved at Oct 17, 2006 Steering Committee
Total PCRs Ad	opted by Steering Committee	System Integration	\$	(924)	Approved at Oct 17, 2006 Steering Committee
Remaining Cor			\$	125,918	
	PG&E SI IBM SI PG&E Proc Development EDS / WACS Accenture / BEA Consultants CC&B Capital - Excepted PCRs CC&B Expense - Excepted PCRs CC&B SM 2.0 Capital CC&B SM 2.0 Expense Call Center: CC&B Iaunch AHT DCSI Servers HW WACS - Purchase IBM PMO Management IBM Expenses		*****	(6,926) (1,589) (18,043) 2,954 (11,225) (15)	Approved by SM Steering Committee Approved by SM Steering Committee
Additional IT c	osts for shift in "Go Live" date to Ser Integration Internal Integration IBM Integration EDS/WACS AFUDC - Integration CC&B - Internal Labor CC&B - Accenture CC&B - SPL CC&B - Other AFUDC - CC&B	ot 4	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(100) (1,000) (8,900) (100) (1,900) (79,053)	· ·

SB\_GT&S\_0493658

**Public Version** 

# Smart/Veter\*\*

SmartMeter<sup>™</sup>/CC&B Initiatives

Steering Committee and CC&B Initiatives Update July 9, 2007



Smart/Meter\*



SmartMeter Cor	ntingency Reconciliation	(\$000)		Total	Notes
I. Business Cas	se Approved Contingency		\$	128,773	
PCRs Adopted I	by Steering Committee	Workstream			
	CC&B Phase 1	CC&B	\$	(1,550)	Performance enhancing Sun servers
	Savings on AMI Servers, IOC, Oracle	Architechture	\$	14,500	Approved at Oct 17, 2006 Steering Committee meeting
	CC&B Phase 1	CC&B	\$	(11,000)	Approved at Oct 17, 2006 Steering Committee meeting
	CC&B Phase 2	CC&B	\$	(2,000)	Approved at Oct 17, 2006 Steering Committee meeting
PCR 06-0003	IBM #1 (No Contract increase)	Business Process	\$	(618)	Approved at Oct 17, 2006 Steering Committee meeting
PCR 06-0004	IBM #1 (No Contract increase)	Business Process	\$	(621)	Approved at Oct 17, 2006 Steering Committee meeting
PCR 06-0008	IBM #4	Business Process	\$	(643)	Approved at Oct 17, 2006 Steering Committee meeting
	EDS WACS	System Integration	\$	(924)	Approved at Oct 17, 2006 Steering Committee meeting
Total PCRs Ado	pted by Steering Committee		\$	(2,856)	
	Remaining Conti	ngency Balance =	\$	125,918	
	Accenture / BEA Consultants Misc IT IT Integration (AFUDC) CC&B Capital - Excepted PCRs Call Center: CC&B launch AHT DCSI Servers HW		**	(942) (3,008) (18,364) (1,253)	Approved at May 11, 2007 Steering Committee meetin Approved at May 11, 2007 Steering Committee meetin
	WACS - Purchase		\$	(454)	Approved at May 11, 2007 Steering Committee meetin
	an a		\$	(52,500)	
Additional IT Co	sts for shift in "Go Live" date to Sept 4 Integration Internal	,	\$	(100)	Approved at May 11, 2007 Steering Committee meetin
	Integration IBM			(188)	Approved at May 11, 2007 Steering Committee meetin Approved at May 11, 2007 Steering Committee meetin
			\$ \$		Approved at May 11, 2007 Steering Committee meetin Approved at May 11, 2007 Steering Committee meetin
	Integration EDS/WACS AFUDC - Integration		3	(1,000)	Approved at May 11, 2007 Steering Committee meetin Approved at May 11, 2007 Steering Committee meetin
			- -	(8,900)	Approved at May 11, 2007 Steering Committee meetin Approved at May 11, 2007 Steering Committee meetin
	CC&B - Internal Labor CC&B - Accenture		**	10,0001	Approved at May 11, 2007 Steering Committee meetin Approved at May 11, 2007 Steering Committee meetin
	CC&B - Accenture CC&B - SPL		æ		Approved at May 11, 2007 Steering Committee meetin Approved at May 11, 2007 Steering Committee meetin
	CC&B - Other		9 6		Approved at May 11, 2007 Steering Committee meetin Approved at May 11, 2007 Steering Committee meetin
	AFUDC - CC&B		ф ¢	(1,900)	Approved at May 11, 2007 Steering Committee meetin Approved at May 11, 2007 Steering Committee meetin
	PMO		ф Ф	(1,900) (2,400)	Approved at May 11, 2007 Steering Committee meetin Approved at May 11, 2007 Steering Committee meetin
			э \$	(2,400) (300)	Approved at May 11, 2007 Steering Committee meetin Approved at May 11, 2007 Steering Committee meetin
	Deployment			2 17	Approved at may 11, 2007 Steering Committee meeting
			\$	(22,300)	

# Smart/Veter\*\*

SmartMeter<sup>™</sup>/CC&B Initiatives Steering Committee Update – August August 22, 2007





## **Contingency Reconciliation**

SmartMeter Con	tingency Reconciliation	(\$ <b>00</b> 0)	Total	Notes
1. Business Case Approved Contingency			128,773	
Total PCRs Ado	oted by Steering Committee	\$	(2,856)	
	Remaining Conti	ngency Balance = \$	125,918	
2. Pendi <b>ng</b> Disp	osition			
IT:	Customer	\$	(1,253)	Approved at May 11, 2007 Steering Committee meeting
	IT Integration (AFUDC)	\$	(26,404)	
	CC&B	\$	(33,788)	
	Data Center	\$	(6,025)	í.
	SM Applications	\$	(454)	
	Funded by CPP Marketing / O&M	\$	11,224	u
	PMO	\$	(4,353)	н
			(61,053)	
Additional IT cos	its for shift in "Go Live" date to Sept 4	*	(01,000)	
IT:	IT Integration (AFUDC)	\$	(4,500)	Approved at May 11, 2007 Steering Committee meetin
- 7 F. P.	CC&B	\$	(15,500)	
	РМО	\$	(1,400)	4
	Deployment	\$	(900)	н
		,	(22,300)	

# Smart/Veter\*\*

SmartMeter<sup>™</sup>/CC&B Initiatives September 19, 2007





## **Contingency Reconciliation**

SmartMeter Contingency Reconciliation (\$000)   1. Business Case Approved Contingency   Total PCRs Adopted by Steering Committee		(\$000)	Total	Notes
		1	<b>\$</b> 128,773 \$ (2,856)	
		\$		
	Remaining Contingen	cy Balance = \$	125,918	
2. Pending Disp	osition			
Π:	Customer IT Integration (AFUDC) CC&B Data Center SM Applications Funded by CPP Marketing / O&M <b>PMO</b>	\$ \$ \$ \$ \$ \$	(1,253) (26,404) (33,788) (6,025) (454) 11,224 (4,353) (61,053)	Approved at May 11, 2007 Steering Committee meeting II II II II II II II
Additional IT cos	ts for shift in "Go Live" date to Sept 4			
IT:	IT Integration (AFUDC) CC&B	\$	(4,500) (15,500)	Approved at May 11, 2007 Steering Committee meeting
	РМО	\$	(1,400)	11
	Deployment	\$	(900)	ł
		\$	(22,300)	

# Smart/Veter\*\*

SmartMeter<sup>™</sup>/CC&B Initiatives Steering Committee Update – October October 8, 2007





## **Contingency Reconciliation**

SmartMeter Contingency Reconciliation		000)	Total	Notes
1. Business Case Approved Contingency Total PCRs Adopted by Steering Committee		\$	128,773 (2,856)	
		\$		
	Remaining Contingency E	Jalance = \$	125,918	
2. Pending Disp	osition			
IT:	Customer	\$	(1,253)	Approved at May 11, 2007 Steering Committee meeting
	IT Integration (AFUDC)	\$	(26,404)	11
	CC&B	\$	(33,788)	11
	Data Center	\$	(6,025)	ii ii
	SM Applications	\$	(454)	ί <b>υ</b>
	Funded by CPP Marketing / O&M	\$	11,224	H
	РМО	\$	(4,353)	и́
		\$	(61,053)	
	ts for shift in "Go Live" date to Sept 4			
IT:	IT Integration (AFUDC)	\$	(4,500)	Approved at May 11, 2007 Steering Committee meetin
	CC&B	2.5	(15,500)	ii ii
	PMO	\$	(1,400)	'n
	Deployment	\$	(900)	u
		S	(22,300)	

# Smart/Meter\*\*

SmartMeter<sup>™</sup>/CC&B Initiatives Steering Committee Update – November November 15, 2007



to PU Code Section 583

#### **Public Version**



### **Contingency Reconciliation**

SmartMeter Con	tingency Reconciliation	(\$000)	Total	Notes
1. Business Case Approved Contingency Total PCRs Adopted by Steering Committee		·	128,773 (2,856)	
		\$		
	Remaining Conting	ency Balance = \$	<b>12</b> 5,918	
2. Pending Disp	osition			
IT:	Customer	\$	(1,253)	Approved at May 11, 2007 Steering Committee meetin
	IT Integration (AFUDC)	\$	(26,404)	11
	CC&B	\$	(33,788)	81
	Data Center	\$	(6,025)	1 11
	SM Applications	\$	(454)	11
	Funded by CPP Marketing / O&M	\$	11,224	11
	РМО	\$	(4,353)	. 8
		5	(61,053)	
Additional IT co	sts for shift in "Go Live" date to Sept 4	*	(211222)	
IT:	IT Integration (AFUDC)	\$	(4,500)	Approved at May 11, 2007 Steering Committee meetin
	CC&B	\$	(15,500)	II
				**
	PMO	\$	(1,400)	11
	Deployment	\$	(900)	11