Application: <u>15-09-001</u>

(U 39 M)

Exhibit No.: (PG&E-47)

Date: July 10, 2017

Witness: Cynthia Lorie



PACIFIC GAS AND ELECTRIC COMPANY 2017 GENERAL RATE CASE SUPPLEMENTAL TESTIMONY

EXHIBIT (PG&E-47)

SMARTMETER™ COST EFFECTIVENESS UPDATE IN COMPLIANCE WITH ORDERING PARAGRAPH 20 OF CALIFORNIA PUBLIC UTILITIES COMMISSION DECISION NO. 17-05-013



PACIFIC GAS AND ELECTRIC COMPANY SMARTMETER™ COST EFFECTIVENESS UPDATE IN COMPLIANCE WITH ORDERING PARAGRAPH 20 OF CALIFORNIA PUBLIC UTILITIES COMMISSION DECISION NO. 17-05-013

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PACIFIC GAS AND ELECTRIC COMPANY SMARTMETER™ COST EFFECTIVENESS UPDATE IN COMPLIANCE WITH ORDERING PARAGRAPH 20 OF CALIFORNIA PUBLIC UTILITIES COMMISSION DECISION NO. 17-05-013

A. Introduction

This late-filed testimony is prepared as directed in Ordering Paragraph (OP) 20 of the California Public Utilities Commission Decision (D.) 17-05-013 Authorizing PG&E's General Rate Case Revenue Requirement for 2017-2019. OP 20 states:

Pacific Gas and Electric Company (PG&E) shall prepare a complete update of Table 3 and Table 4 from Decision 09-03-026, following the instructions provided in Section 5 of this decision, and file and serve that update in this proceeding no later than 60 days after the date of today's decision. The assigned Commissioner and assigned Administrative Law Judge shall determine further procedural steps upon receipt of PG&E's updated analysis.¹

Section 5 of the Decision states:

By "fully update" we mean that PG&E should provide revised values for every line item in the original tables, with full support in workpapers for each revised value. If a line item is added to either table, PG&E shall provide full workpapers for that as well. As part of the analysis, PG&E shall provide a narrative document that explains and justifies the revisions to each line item, or the reason for leaving a line item unchanged, or the reason for adding a line item. PG&E shall serve the updated analysis on the service list in this proceeding no later than 60 days after today's date.²

Section B of this report includes the updated analysis.

B. Updated Tables 3 and 4 From D.09-03-026

This section includes: (1) a summary of the results including key drivers of the updates compared to the original SmartMeter[™] Upgrade (SMU) analysis; (2) updated Tables 3 and 4 from D.09-03-026; and (3) narrative explanations for each line item in the updated tables.

PG&E used current cost and benefit information to update the values included in the tables and to explain its rationale for each line item in the narrative section below. For clarity, PG&E notes that—as it discussed in its

D.17-05-013, OP 20.

Id. at p. 214.

December 1, 2015 report³—there are other incremental future potential benefits from SMU technology, primarily related to Electric Program Investment Charge and Smart Grid programs and other pilots, which are not yet quantifiable and therefore, are not reflected in the tables below or the narrative explanations that follow.⁴ PG&E does not address these future potential benefits further here except to reiterate its belief that they are an important aspect of evaluating the cost effectiveness of the SMU technology in addition to the costs and benefits that are capable of quantification and shown in the tables that follow.

1. Summary of Costs and Benefits From Updated Tables 3 and 4

As shown in the tables below, the updated analysis shows incremental SMU costs exceeding incremental SMU benefits by approximately \$278.8 million. The Present Value Revenue Requirement (PVRR) of costs declined from \$749.0 million in the original SMU analysis to \$575.7 million. The primary drivers for the decline in costs are: (1) a reduction in the actual and forecast number of meters to be installed; (2) unanticipated tax rules providing accelerated depreciation on capital costs; and (3) removal of operations and maintenance costs associated with Home Area Network (HAN) and Program Costs associated with Title 24 A/C Cycling. The updated cost number also reflects the higher forecast cost of Time-of-Use (TOU) programs compared to the Peak Time Rebate (PTR) Program.

³ Exhibit (PG&E-16) "SmartMeter Cost Effectiveness Update in Compliance with Ordering Paragraph 5 of California Public Utilities Commission Decision No. 15-07-008."

For example, among others, PG&E discussed potential benefits associated with Volt/VAR Optimization (VVO) in the December 1, 2015 report. Since the time that report was filed, PG&E filed Advice 4990-E, which estimated a range of net benefits for VVO of \$92 million to \$295 million on a total resource cost basis. While SMU potentially supports and enhances a portion of VVO benefits, the report filed in Advice 4990-E does not identify what portion that may be. For that reason, PG&E has not included these costs and benefits in Tables 3 and 4.

The \$278.8 million is calculated as \$575.7 million (PVRR Costs shown in Table 3) less \$297.0 million (PVRR Benefits shown in Table 4). While the updated analysis indicates that the costs of the SMU program exceed the benefits, as discussed in Exhibit (PG&E-16), the Commission in D.09-03-026 and other decisions determined not to require a guarantee that the forecast benefits of the SMU program would be realized, but instead adopted what it considered to be reasonable estimates of benefits based on the record. The Commission decisions adopted a ratemaking mechanism that required PG&E to deliver specific monetary credits to customers to reflect certain operating benefits from the overall SmartMeter™ project. (See Exhibit (PG&E-16), pp. 3-4.)

The PVRR of benefits declined from \$779.6 million in the original SMU analysis to \$297.0 million. The primary drivers for the decline are: (1) a reduction in the actual and forecast number of meters to be installed and the related reduction in benefits in the operation of remote connect/disconnect switches; (2) removal of benefits associated with HAN (Electric Conservation) and Title 24 A/C Cycling; and (3) removal of benefits associated with PTR, and replacement with lower benefits associated with TOU programs.

2. Updated Tables 3 and 4 From D.09-03-026

Updated Tables 3 and 4 below provide: (1) cost or benefit information from D.09-03-026, which PG&E has converted to a PVRR; 6 (2) updated cost or benefit information, which PG&E has also converted to PVRR; and (3) a "Status" column, which identifies whether the Current Update line item was revised, remains unchanged, or represents an added item compared to the original line items adopted in D.09-03-026. Section B3, which follows the updated tables, provides narrative explanations for each line item in the tables explaining the treatment of each line item stated in the Status column.

Table 3 includes two columns. The "Nominal" column represents the incremental costs of the SMU to be funded by the SmartMeter™ project (the Project Costs). The "PVRR" column represents the Present Value of the Revenue Requirements associated with those nominal Project Costs, as well as the PVRR associated with the forecast ongoing costs of operating and maintaining the program over its useful life.

In Table 4, the "Annualized" column represents the estimated annual amount of operational benefits at the completion of the project, in 2008 dollars. The PVRR column represents the Present Value of Revenue Requirements for all benefit streams over the 20-year life of the program.

TABLE 3
ADOPTED AND UPDATED ESTIMATES OF ALLOCATED INCREMENTAL COSTS

	1	From SMU b. 151 of E Incremer	0.09- ital (03-026 Costs		0				
		lominal Dollars in		PVRR	-	lominal Dollars in t		PVRR	Status	Section B3 Reference
Deployment Costs	•			•	•			•		
Meter Devices (Less HAN and Electromechanical Meter Upgrades)	\$	310,757	\$	486,358	\$	325,116	\$	406,858	Revised	[A]
HAN Retrofit		26,532		24,581		21,846		24,947	Revised	[B]
Electromechanical Meter Retrofit		18,800		20,372		22,485		25,677	Revised	[C]
Information Technology		33,600		49,793		22,583		26,610	Revised	[D]
Title 24 Program Costs		-		26,174		-		-	Revised	[E]
Peak-Time Rebate Program Costs		-		27,592		-		-	Revised	[F]
TOU Program Costs		n/a		n/a		-		63,814	Added	[G]
Project Management		-		-		-		-	Unchanged	[H]
Training		1,697		1,592		1,697		1,592	Unchanged	[1]
Risk Based Allowance	_	44,139	_	46,724	_		_		Revised	[J]
Subtotal	\$	435,525	\$	683,186	\$	393,728	\$	549,498		
Operations and Maintenance Costs										
Operations and Maintenance	\$	4,993	\$	42,886	\$	5,978	\$	15,432	Revised	[K]
Risk Based Allowance	_	562		503	_				Revised	[J]
Subtotal	\$	5,555	\$	43,389	\$	5,978	\$	15,432		
Other Costs										
Technology Assessment	\$	21,400	\$	18,995	\$	11,344	\$	10,803	Revised	[L]
Risk Based Allowance	_	4,280		3,445	_	<u> </u>	_		Revised	[J]
Subtotal	\$	25,680	\$	22,440	\$	11,344	\$	10,803		
Total Incremental Costs	\$	466,760	\$	749,015	\$	411,050	\$	575,734		

TABLE 4
ADOPTED AND UPDATED ESTIMATES OF ALLOCATED INCREMENTAL BENEFITS

		From SMU			Current	Update		
	Ì Ar	ncrementa inualized	.09-03-026 al Benefits PVRR housands)	An	nualized	al Benefits PVRR thousands)	Status	Section B3 Reference
Operational Benefits Integrated Connect / Disconnect Switches								Reference
Avoided Field Visits	\$	(6,682)	\$ (114,702)	\$	(5,929)	\$ (78,101)	Revised	[M]
Improved Cash Flow		(969)	(11,174)		(475)	(4,214)	Revised	[M]
Reduced Bad Debt		(2,429)	(26,756)		(847)	(6,758)	Revised	[M]
Tax Benefit from Meter		n/a	(11,799)		n/a	(11,398)	Revised	[N]
Replacement			,			(10.100)		
Projected Additional Tax Benefits		<u>n/a</u>	<u>n/a</u>		<u>n/a</u>	(12,402)	Added	[O]
Subtotal	\$	(10,080)	\$ (164,431)	\$	(7,252)	\$ (112,872)		
Energy Conservation / Demand Response Benefits								
Electric Conservation		n/a	\$ (268,847)		n/a	\$ -	Revised	[P]
Gas Conservation		n/a	-		n/a	-	Unchanged	[Q]
Peak-Time Rebate		n/a	(262,916)		n/a	-	Revised	[R]
Time of Use (TOU)		n/a	-		n/a	(184,078)	Added	[S]
A/C Cycling		n/a	(83,427)		n/a	<u> </u>	Revised	[T]
Subtotal		n/a	\$ (615,190)		n/a	\$ (184,078)		
Total Incremental Benefits		n/a	\$ (779,621)		n/a	\$ (296,951)		

3. Narrative Explanations of Line Items in Updated Tables 3 and 4

The following are narrative explanations for each line item in updated Tables 3 and 4. The purpose of the narratives is to explain the revisions to each line item, or the reason for leaving a line item unchanged, or the reason for adding a line item within the tables.

a. Table 3 - Narrative Explanations

 [A] – Meter Devices (Less HAN and Electromechanical Meter Upgrades): The forecast Project Costs from the SMU application were replaced with an allocation of actual total SmartMeter project costs to the SMU, as described in the October 17, 2016 report. In addition, the tax treatment for all program expenditures was also updated to actual tax treatment as also described in the October 17, 2016 report.

In this report, PG&E also updated the forecast ongoing incremental costs of purchasing Meter Devices over the life of the program. PG&E

⁷ Exhibit (PG&E-45) "Late Filed Exhibit on SmartMeter™ Upgrade Cost Effectiveness Update."

updated the number of meters for the actual number of meters deployed through the end of 2016, which was lower than the original SMU application estimate. PG&E also updated the forecast of meter growth over the remainder of the program to reflect current lower growth trends. Regarding the cost of meter devices, the original SMU forecast included a 3 percent annual decline in prices after the end of the project. PG&E reviewed actual meter purchases and determined that meter prices have not declined as forecast, and therefore, removed the annual 3 percent price decline from the calculations. (See Workpapers 1, 8.)

[B] – <u>HAN Retrofit</u>: The forecast Project Costs from the SMU application were replaced with an allocation of actual total SmartMeter project costs to the SMU, as described in the October 17, 2016 report. In addition, the tax treatment for all program expenditures was also updated to actual tax treatment as described in the October 17, 2016 report. (See Workpaper 1.)

[C] – <u>Electromechanical Meter Retrofit</u>: The forecast Project Costs from the SMU application were replaced with an allocation of actual total SmartMeter project costs to the SMU, as described in the October 17, 2016 report. In addition, the tax treatment for all program expenditures was also updated to actual tax treatment as described in the October 17, 2016 report. (See Workpaper 1.)

[D] – Information Technology (IT): The forecast Project Costs from the SMU application were replaced with an allocation of actual total SmartMeter project costs to the SMU, as described in the October 17, 2016 report. In addition, the tax treatment for all program expenditures was also updated to actual tax treatment as also described in the October 17, 2016 report.

In this report, PG&E also updated IT costs associated with Title 24 A/C Cycling. In the SMU application, PG&E assumed the new Title 24 residential building code air conditioning standards, which included mandatory Programmable Communicating Thermostats (PCTs), would be effective in 2012. However, the California Energy Commission (CEC) withdrew its Title 24 building code air conditioning standards recommendation and the plans for a mandatory PCT direct load control

program were put on hold. It is unclear at this time if or when PCTs will 1 2 be required by residential building codes. Therefore, PG&E has removed the IT costs associated with supporting a PCT direct load 3 control program. (See Workpaper 1.) 4 5 [E] – Title 24 Program Costs: For the same reasons stated in note [D] above, PG&E has also removed the other Program Costs associated 6 with supporting a PCT direct load control program. 7 8 [F] – Peak Time Rebate Program Costs: PG&E has removed the Program Costs associated with supporting PTR. 9 [G] – Time of Use (TOU) Program Costs: In place of PTR, PG&E 10 11 added estimates for the costs of supporting TOU programs. In the October 17, 2016 report, PG&E used the costs of the PTR program as a 12 proxy for TOU programs. In this report, PG&E has updated TOU costs 13 used in the current analysis to reflect actual TOU costs for 2015-2016 14 and forecast TOU program costs from the 2017 General Rate Case 15 (GRC) for 2017-2019. For years beyond 2019, PG&E assumed \$3 per 16 customer per year for outreach to an estimated 2.9 million TOU 17 customers beginning in 2020 through the end of the program. (See 18 19 Workpapers 1, 9.) [H] – Project Management: This line item is unchanged. It was not 20 21 adopted in D.09-03-026. [I] – Training: This line item is unchanged. Training costs are not 22 material, and costs for training were not separately tracked in the 23 SmartMeter project actuals. 24 [J] – Risk Based Allowance: As described in note [A] above, 25 26 forecast SMU project costs were replaced with an allocation of actual total SmartMeter project costs to the SMU. Because all of the Risk 27 Based Allowance was used during the project, those forecast costs are 28 29 shown on the line items as actually spent (this applies to all three Risk 30 Based Allowance lines). [K] – Operations and Maintenance: The forecast Project Costs from 31 the SMU application were replaced with an allocation of actual total 32 SmartMeter project costs to the SMU, as described in the October 17, 33

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2016 report. In addition, the tax treatment for all program expenditures

were also updated to actual tax treatments as described in the October 17, 2016 report.

In this report, PG&E also updated the forecast ongoing costs of operating and maintaining (O&M) the program. The primary driver for ongoing O&M costs is the forecast of the number of meters deployed over the life of the program. PG&E updated the number of meters for the actual number of meters deployed through the end of 2016, which was lower than the original SMU application estimate. PG&E also updated the forecast of meter growth over the remainder of the program to reflect current lower growth trends.

Finally, in the SMU application, PG&E assumed it would incur costs to connect In Home Display (IHD) devices developed by third-party vendors to PG&E's HAN. That market has not developed as anticipated and, at this time, customer devices connected to the PG&E HAN are minimal. PG&E has removed the O&M costs associated with supporting HAN devices. (See Workpapers 1, 8.)

[L] – <u>Technology Assessment</u>: The forecast Project Costs from the SMU application were replaced with an allocation of actual total SmartMeter project costs to the SMU, as described in the October 17, 2016 report. In addition, the tax treatment for all program expenditures were also updated to actual tax treatments as described in the October 17, 2016 report. (See Workpaper 1.)

b. Table 4 - Narrative Explanations

[M] – Integrated Connect / Disconnect Switches: One of the primary drivers for operational benefits of integrated connect/disconnect switches is the forecast of the number of meters deployed over the life of the program. PG&E updated the number of meters for the actual number of meters deployed through the end of 2016, which was lower than the original SMU application estimate. PG&E also updated the forecast of meter growth over the remainder of the program to reflect current lower growth trends. PG&E has also used actual data regarding the rate of activation of switches, as well as the data regarding average balances, collections and bad debt write-offs associated with Shut Offs for Non-Payment (SONPs), to update the model calculations for Avoided

Field Visits, Improved Cash Flows and Reduced Bad Debt. (See 1 2 Workpaper 10.) [N] – Tax Benefit from Meter Replacement: In the SMU application, 3 there was an estimate of the time-value of the immediate tax benefits of 4 5 writing off retired electro-mechanical meters upon replacement, compared with waiting for those benefits to occur through depreciation. 6 This estimate was based on the forecast deployment plan at the 7 8 beginning of the SMU. In this report, PG&E updated the estimate of this benefit based on the actual timing of meter replacements over the 9 project. (See Workpaper 12.) 10 11 [O] – Projected Additional Tax Benefits: Table 45-4 of the October 17, 2016 report detailed potential incremental tax benefits 12 associated with shortened depreciation lives of SmartMeter assets 13 above those already reflected in Table 3. As discussed in the 14 October 17, 2016 report, the Internal Revenue Service (IRS) has 15 released a Technical Advice Memorandum (TAM) supporting PG&E's 16 position on electric meters. While the California Franchise Tax Board 17 (FTB) has generally followed IRS rulings, there is no guarantee that will 18 19 continue. Therefore, in Table 4, PG&E is adding the tax benefits associated with electric solid state meters funded by the SMU, and only 20 21 for Federal tax purpose. (See Workpaper 4.) [P] – Electric Conservation: In the SMU application, PG&E included 22 benefits associated with connection of IHD devices developed by 23 third-party vendors to PG&E's HAN. As described above, that market 24 has not developed as anticipated, and at this time, customer devices 25 26 connected to the PG&E HAN are minimal. PG&E has removed electric 27 conservation benefits associated with supporting HAN devices. [Q] – Gas Conservation: This line item is unchanged. It was not 28 29 adopted in D.09-03-026. 30 [R] – Peak Time Rebate: PG&E has removed the benefits associated with PTR. 31 [S] – Time of Use (TOU): In place of PTR, PG&E added estimates 32 for the benefits of TOU programs. PG&E prepared an initial estimate of 33

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TOU energy conservation and avoided cost of capacity benefits in the

December 1, 2015 report. In the October 17, 2016 report, PG&E updated that analysis using the market-based power pricing assumptions included in the most recent E3 Avoided Cost Calculator. In this report, PG&E has updated the avoided cost of capacity MW estimates, and the energy conservation GWh estimates based on preliminary actual results of the TOU programs in terms of customer participation and response. (See Workpaper 13.)

[T] – A/C Cycling: In the SMU application, PG&E assumed the new Title 24 residential building code air conditioning standards, which included mandatory PCTs, would be effective in 2012. However, as described above, the CEC withdrew its Title 24 building code air conditioning standards recommendation and the plans for a mandatory PCT direct load control program were put on hold. It is unclear at this time if or when PCTs will be required by residential building codes. Therefore, PG&E has removed the benefits associated with supporting a PCT direct load control program.

PACIFIC GAS AND ELECTRIC COMPANY APPENDIX A STATEMENT OF QUALIFICATIONS

PACIFIC GAS AND ELECTRIC COMPANY STATEMENT OF QUALIFICATIONS OF CYNTHIA LORIE

3	Q 1	Please state your name and business address.
4	A 1	My name is Cynthia Lorie, and my business address is
5		PricewaterhouseCoopers LLP (PwC), Three Embarcadero Center,
6		San Francisco, California.
7	Q 2	Briefly describe your responsibilities at PwC.
8	A 2	I am Director in PwC's Capital Projects and Infrastructure organization. In
9		this position, I work with PwC's clients on different types of construction and
10		regulatory matters. For the past 15 years, most of my work has involved
11		advising and supporting clients involved in rate case filings, regulatory
12		investigations, and rate recovery efforts. I supported development of
13		PG&E's 2007 SmartMeter™ Upgrade application filing. In 2016, I supported
14		the witness sponsoring Exhibit (PG&E-45) in PG&E's 2017 General Rate
15		Case, the Late Filed Exhibit on SmartMeter™ Upgrade Cost Effectiveness
16		Update.
17	Q 3	Please summarize your educational and professional background.
18	A 3	I received a Bachelor of Arts degree from Connecticut College and a
19		Master's degree in Business Administration from St. Mary's College. I
20		joined PwC in 2006. Prior to joining PwC, I worked for 10 years with other
21		consulting companies focusing on construction and environmental matters.
22	Q 4	What is the purpose of your testimony?
23	A 4	I am sponsoring the following testimony and workpapers in PG&E's 2017
24		General Rate Case:
25		• Exhibit (PG&E-47), "SmartMeter™ Upgrade Cost Effectiveness Update
26		in Compliance with Ordering Paragraph 20 of Decision No. 17-05-01."
27	Q 5	Does this conclude your statement of qualifications?
28	A 5	Yes, it does.

PACIFIC GAS AND ELECTRIC COMPANY APPENDIX B WORKPAPERS

TABLE OF CONTENTS FOR WORKPAPERS SUPPORTING EXHIBIT (PG&E-47)

Worksheet	Page	Description
Table 3	B-2	Same as found in testimony
Table 4	B-3	Same as found in testimony
Workpaper 1	B-4 to B-5	Support for Table 3
Workpaper 2	B-6 to B-8	Support for Table 3 / Workpaper 1
Workpaper 3	B-9 to B-11	Support for Table 3 / Workpaper 2
Workpaper 4	B-12 to B-13	Support for Table 4
Workpaper 5	B-14 to B-15	PVRR financial assumptions
Workpaper 6	B-16 to B-21	Support for Workpapers 2 and 3 PVRR factor calculations
Workpaper 7	B-22 to B-23	Support for Workpaper 6 depreciation and tax assumptions
Workpaper 8	B-24 to B-25	Support for Workpaper 2 - updated meter devices and operations and maintenance costs (O&M)
Workpaper 9	B-26	Support for Workpaper 2 updated TOU program costs
Workpaper 10	B-27	Support for Table 4 operational benefits for integrated connect/disconnect switches
Workpaper 11	B-28	Support for Workpapers 8, 9 and 10 updated meter forecast
Workpaper 12	B-29	Support for Table 4 tax benefits from meter replacements
Workpaper 13	B-30	Support for Table 4 benefits associated with TOU

Table 3
Adopted and Updated Estimates of Allocated Incremental Costs

	p. 151 of L	U Decision 0.09-03-026 ntal Costs	Workp	t Update paper 1		
	Nominal	PVRR	Nominal	PVRR		
	- 10	thousands)	- 10	thousands)	Status	Reference
Deployment Costs	(=	, , , , , , , , , , , , , , , , , , , ,	(= 0	,		
Meter Devices (Less HAN and	\$ 310,757	\$ 486,358	\$ 325,116	\$ 406,858	Revised	[A]
Electromechanical Meter Upgrades)						
HAN Retrofit	26,532	24,581	21,846	24,947	Revised	[B]
Electromechanical Meter Retrofit	18,800	20,372	22,485	25,677	Revised	[C]
Information Technology	33,600	49,793	22,583	26,610	Revised	[D]
Title 24 Program Costs	- · ·	26,174		· -	Revised	[E]
Peak Time Rebate Program Costs	_	27,592	=	-	Revised	[F]
TOU Program Costs	n/a	n/a	-	63,814	Added	[G]
Project Management	_	-	-	-	Unchanged	[H]
Training	1,697	1,592	1,697	1,592	Unchanged	[I]
Risk Based Allowance	44,139	46,724	· <u>-</u>	-	Revised	[J]
Subtotal	\$ 435,525	\$ 683,186	\$ 393,728	\$ 549,498		
Operations and Maintenance Costs						
Operations and Maintenance	\$ 4,993	\$ 42,886	\$ 5,978	\$ 15,432	Revised	[K]
Risk Based Allowance	562	503	-	-	Revised	[J]
Subtotal	\$ 5,555	\$ 43,389	\$ 5,978	\$ 15,432		
Other Costs						
Technology Assessment	\$ 21,400	\$ 18,995	\$ 11,344	\$ 10,803	Revised	[L]
Risk Based Allowance	4,280	3,445	_	-	Revised	[1]
Subtotal	\$ 25,680	\$ 22,440	\$ 11,344	\$ 10,803		
Total Incremental Costs	\$ 466,760	\$ 749,015	\$ 411,050	\$ 575,734		

Table 4
Adopted and Updated Estimates of Incremental Benefits

	From SMU p. 152 of D.					
	Increment	al Benefits	Incrementa	al Benefits		
	Annualized	PVRR	Annualized	PVRR		
	(Dollars in	thousands)	(Dollars in	thousands)	Status	Reference
Operational Benefits						
Integrated Connect / Disconnect Switches						
Avoided Field Visits	\$ (6,682)	\$(114,702)	\$ (5,929)	(\$78,101)	Revised	[M]
Improved Cash Flow	(969)	(11,174)	(475)	(\$4,214)	Revised	[M]
Reduced Bad Debt	(2,429)	(26,756)	(847)	(\$6,758)	Revised	[M]
Tax Benefit from Meter Replacement	n/a	(11,799)	n/a	(11,398)	Revised	[N]
Projected Additional Tax Benefits	n/a	n/a	n/a_	(12,402)	Added	[O]
Subtotal	\$ (10,080)	\$(164,431)	\$ (7,252)	\$(112,872)		
Energy Conservation/Demand Response						
Benefits						
Electric Conservation	n/a	\$(268,847)	n/a	\$ -	Revised	[P]
Gas Conservation	n/a	-	n/a	-	Unchanged	[Q]
Peak Time Rebate	n/a	(262,916)	n/a	-	Revised	[R]
Time of Use (TOU)	n/a	n/a	n/a	(184,078)	Added	[S]
A/C Cycling	n/a	(83,427)	n/a		Revised	[T]
Subtotal	n/a	\$(615,190)	n/a	\$(184,078)		-
Total Benefits	n/a	\$(779,621)	n/a	\$(296,951)		

Pacific Gas and Electric Company

Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013

WORKPAPER 1 - Updated Cost Tables in Support of Table 3

				Cost	t Allocated
Per Workpap	Per Workpapers in Support of Table 3 of D.09-03-026	Corre	Corresponding Estimated Actual Cost	Prof	
Meter Devices (Less HAN and Electromechanical Meter Upgrades) New Meter Devices (5,447,286 - 2 Less: Funded by AMI (5,447,286 - 2 Less: Funded by AMI (5,217,286 + 5,217,286 HAN Bridge/Repeaters	chanical Meter Upgrades) (5,447,286 - 230,000) x \$107.12 = \$558,896 (5,447,286 - 230,000) x \$56.83 = \$293,680 (5,447,286 - 230,000) x \$56.33 = \$293,680 337,826 x \$50.00 = \$16,891 \$310,757 *	Meter Devices (Less HAN and Electromechanical Meter Upgrades) New Meter Devices (5,217,511 - 226,000 Less: Funded by AMI (4,991,511 HAN Bridge/Repeaters	chanical Meter Upgrades) (5,217,511 - 226,000) x \$118.23 = \$590,146 (5,217,511 - 226,000) x \$118.23 = \$325,136 (4,991,511) x \$118.23 = \$325,116 0 x \$50.00 = \$0 \$325,116	5,030) 5,116 * 12/13 5,116 * 12/13 5,116 * 1	3 \$406,858 \$0 \$406,858
HAN Retrofft Field Exchange Labor Plant Retrofft Labor NIC / HAN Devices	288,000 x \$21.89 = \$6.304 288,000 x \$24.85 = \$7,165 288,000 x \$45.39 = \$13,071 288,000 x \$45.39 = \$13,071	HAN Retrofit Field Exchange Labor Plant Retrofit Labor New Meter Devices	144.495 x \$32.96 = \$4.763 144.495 x \$0.00 = \$17.084 144.495 x \$118.23 = \$17.084 144.495 \$118.23 = \$21,846	763 60 .084 12/13	3 \$24,947
Electromechanical Retrofit Field Exchange Labor New Meter Devices Less: Funded by AMI	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Electromechanical Retrofit Field Exchange Labor New Meter Devices Less: Funded by AMI	226,000 x \$32,96 = \$7,449 226,000 x \$118,23 = \$26,720 226,000 \$99,49 \$22,485	\$7,449 \$26,720 (\$11,684) \$22,485	3 \$25,677
Information Technology PTR - Systems Integration - Capital PTR - Systems integration - Expense HAN Infrastructure (SSN) - HW HAN Infrastructure (SSN) - HW HAN Infrastructure (Hex) - HW HAN Infrastructure (Hex) - WI Itle 24 AC Program Load Limiting Functionality Incremental PMO	\$3.025 \$9.285 \$2.286 \$11,136 \$2.285 \$7,285 \$7,39 \$0 \$3,721 \$2,840	Information Technology PTR - Systems Integration - Capital PTR - Systems integration - Expense PTR Infrastructure (SSN) - SW/Labor HAN Infrastructure (Hex) - SW/Labor HAN Infrastructure (Hex) - SW/Labor Title 24 AC Program Load Limiting Functionality Incremental PMO Upgrade Share of Release X (Scalability)	\$3.595 \$0.5228 \$0.541 \$0.50 \$0.50 \$0.5220 \$5.220 \$2.1040 \$2.1040	595 28 28 28 5 541 2 2 641 2 2 651 2 2 651 2 2 651 2 2 651 2	\$3,783 \$0 \$5,250 \$6,883 \$0 \$0 \$0 \$5,493 \$2,212 \$2,212 \$2,212
Title 24 Program Costs (Only GRC-recurring Costs)	0\$	Title 24 Program Costs (Only GRC-recurring Costs)	0\$	*	0\$
Peak Time Rebate Program Costs (Only GRC-recurring Costs)	0\$	Peak Time Rebate Program Costs Zero-out GRC-recurring Costs	0\$	09	0\$
		TOU Program Costs Added to Replace Peak Time Rebate	0\$	09	\$63,814
Training FAS Modifications SERV anywhere Call Center	\$334 \$356 \$1,007 \$1,687	Training FAS Modifications SERV anywhere Call Center	\$334 \$366 \$1,007	334 356 007 1	\$1,592
Operations & Maintenance Call Center (HAN related) Network Operations Center Field Maintenance - Meters Field Maintenance - HAN Incremental IT Data Center	\$320 \$283 \$283 \$65 \$15 \$3,750 \$4,993	Operations & Maintenance Call Center (HAN related) Network Operations Center Field Maintenance - Meters Field Maintenance - HAN Incremental IT Data Center	\$0 \$1.367 \$625 \$05 \$0 \$3.986 \$5.978	50 * 367 * 525 * 50 * 60 * 60 * 60 * 60 * 60 * 60 * 6	\$15,432
Technology Assessment Technology Assessment Staff Pluss - Hardware Pluss - Capital Labor Pluss - Capital Labor Pluss - Expense HAN Standards HAN Lab - Hardware HAN Lab - Expense	\$4,000 \$500 \$800 \$5,100 \$5,000 \$2,500 \$3,500 \$3,500	Technology Assessment Technology Assessment Staff Technology Assessment Staff Technology Assessment Staff Technology Assessment Staff Pilots - Expense HAN Standards HAN Lab - Hardware HAN Lab - Expense	\$203 \$294 \$470 \$2.996 \$3.857 \$1.1,344	203 1 1 2 294 12 2 996 1 1 1 2 468 1 1 2 906 1 1 3 44 468 1 1 2 9 6 1 1 1 2 9 6 1 1 1 2 9 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$185 \$338 \$494 \$2,722 \$3,505 \$1,691 \$1,868
Subtotal Excl. Risk Based Allowance Risk Based Allowances	\$417,779	Subtotal Excl. Risk Based Allowance Risk Based Allowances	\$411,050	1,050	\$575,734
Grand Total	\$466,760	Grand Total	\$411,050	1,050	\$575,734

Pacific Gas and Electric Company

Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013

WORKPAPER 1 - Updated Cost Tables in Support of Table 3

Per Workpapers in Support of Table 3 of D.09-03-026		Corresponding Estimated Actual Cost	Cost	Allocated PVRR	p ~
Project Costs by PVRR Cost Profile		ile ile			
Meter Devices / Retrofits profile 13	\$257,352	Meter Devices / Retrofits profile 13 Meter Devices / Detrofits profile 13	\$291,886 13	\$332,549	6 49
Meter Devices / Therrolls profile 12	900,000			00,000	2
Technology Assessment profile 12	\$3,000	Technology Assessment profile 12	\$1,762 12	\$2,030	0
Computer Hardware profile 7	\$4,570	<i>L</i> :		\$2,339	0
Capitalized Labor profile 2	\$28,855	Capitalized Labor profile 2	\$20,768 2	\$21,85	4
Expense profile 1	\$55,617	Expense profile 1	\$16,787	\$15,304	4
Risk Allowances	\$48,981	Risk Allowances	0\$	\$0	
	\$466,760	9	\$411,050	\$463,412	12
		GRC / Other Program Costs Meter Devices / Retrofits profile 13 Meter Devices / Retrofits profile 12		\$31,654 \$3,942	4 0
		Computer Hardware profile 7 Computer Software profile 6 Capitalized Labor profile 2		\$2,911 \$0 \$0	-
		Expenses - TOU Program Costs Expenses - T-24 PCT Program Costs Expenses - Meter Devices (per SMU WPs) Expenses - O&M		\$63,814 \$0 \$0 \$10,000	4 0
				\$112,322	22

\$575,734

Pacific Gas and Electric Company Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013 WORKPAPER 2 - Updated Cost Tables in Support of Table 3 / Workpaper 1

Line D:09-03-026 SmartMeter Upgrade D:09-03-026 SmartMeter Upgrade Project Costs Electric Meters Electric Communication Devices Computer Hardware Software - Capitalized (Book) Software - Expensed (Book) Labor - Capitalized (Book) Expenses - TPR Program Costs Expenses - T-24 PCT Program Costs Expenses - T-24 PCT Program Costs
 Profile [a]
 Federal Tax
 State Tax
 Book [c]

 13
 MACRS 20
 ADR-SYD 30
 30

 12
 MACRS 20
 ADR-SYD 30
 20

 7
 MACRS 5
 ADR-SYD 6
 15

 4
 SL 3
 SL 3
 15

 3
 SL 3
 SL 3
 5
 PVRR (2005) 253,438 \$ 70,717 \$ 4,163 \$ 9VRR (2008) 315,725 88,096 5,186 2011 37,118 \$ 15,293 \$ 2008-2012 2010-2030 79,602 \$ 21,964 \$ 4,569 \$ **2012** 82,578 16,306 8,257 \$ 1,129 \$ 257,352 71,385 4,569 16,693 Expense Expense Expense Expense Expense Expense 24,277 2,462 24,161 28,856 30,243 Expenses - Other
Risk-Based Allowance - Capital
Risk-Based Allowance - Expense
Subtotal 2,282 6,183 \$ 5,503 \$ 45,727 42,731 11,799 \$ 29,849 38,616 39,614 998 GRC / Program Costs
Electric Meters
Electric Communication Devices
Computer Hardware
Software - Capitalized (Book)
Software - Expensed (Book)
Labor - Capitalized (Book)
Labor - Capitalized (Book)
Expenses - FTR Program Costs
Expenses - T-24 PCT Program Costs
Expenses - Other 78,952 13,072 4,409 \$ PVRR (2005) 42,079 \$ 7,490 \$ 2,376 \$ Federal Tax MACRS 20 MACRS 20 MACRS 5 SL 3 SL 3 3,026 \$ 902 \$ 2018 6,148 \$ 858 \$ State Tax ADR-SYD 30 ADR-SYD 30 ADR-SYD 6 2011 3,533 \$ 1,003 \$ 2016 6,159 \$ 863 \$ 5,643 843 \$ 312 \$ 3,177 \$ 888 \$ 2,192 \$ 2014 4,391 \$ 878 \$ 6,226 \$ 862 \$ 1,144 \$ 2019 6,072 \$ 852 \$ 2023 5,781 \$ 848 \$ 2008-2012 2020 5,997 \$ 854 \$ 5,924 851 597 5,852 \$ 849 \$ 853 9,330 2,960 869 \$ SL 3 SL 3 - \$ 2,000 \$ 12,831 \$ 50,618 \$ - \$ 1,235 \$ 7,708 \$ 22,149 \$ - \$ 2,000 \$ 4,726 \$ 1,793 \$ 1,338 \$ 9,646 \$ 1,539 9,602 27,592 26,174 83,747 8,105 \$ 1,793 \$ 2,631 \$ 10,263 \$ Expense Expense Expense Expense Expense Expense Expense Expense - \$ 1,793 \$ 4,555 \$ 14,718 \$ - \$ 1,793 \$ 4,059 \$ 16,886 \$ - \$ 1,793 \$ 4,316 \$ 15,478 \$ - \$ 1,793 \$ 4,780 \$ 15,893 \$ - \$ 1,793 \$ 4,994 \$ 6,708 \$ - \$ 1,793 \$ 5,196 \$ 7,724 \$ - \$ 1,793 \$ 5,053 \$ 8,595 \$ 1,793 \$ 3,582 \$ 11,551 \$ - \$ 1,793 \$ 3,637 \$ 7,940 \$ - \$ 1,793 \$ 3,650 \$ 8,202 \$ - \$ 1,793 \$ 3,619 \$ 8,473 \$ - \$ 1,793 \$ 1,793 \$ - \$ 1,793 \$ 69,011 \$ 196,811 \$ 21,010 \$ 67,226 \$ 3,331 \$ 13,062 \$ 3,536 \$ 9,631 \$ 3,608 \$ 7,686 \$ \$ 2,615 \$ 1,906 \$ Risk-Based Allowance - Expense Subtotal Expense 171,273 \$ 28 \$ 466,760 \$ 427,704 \$ 601,248 \$ 749,015 29 PVRR Factors by Cost Profile [b] Federal Tax State Tax Book [c] Year 22 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 Vear 1
0.964
1.055
1.032
1.123
1.071
1.115
1.135
1.136
1.225
1.257
1.348
1.361
1.361
1.351
1.364
1.364 Year 2 0.896 0.981 0.959 1.043 1.055 1.056 1.138 1.167 1.252 1.262 1.262 1.255 1.265 1.265 Vear 3
0.833
0.911
0.891
0.992
0.963
0.980
0.981
1.058
1.084
1.163
1.170
1.165
1.173
1.173 Year 15
0.346
0.363
0.370
0.387
0.384
0.391
0.391
0.403
0.413
0.430
0.430
0.430
0.430
0.430
0.430
0.430 0.463 0.497 0.496 0.530 0.515 0.536 0.546 0.579 0.583 0.616 0.616 0.616 0.617 0.774 0.847 0.828 0.901 0.860 0.895 0.911 0.912 0.983 1.006 1.079 1.084 1.084 1.081 0.668 0.730 0.715 0.777 0.743 0.773 0.786 0.787 0.849 0.865 0.927 0.927 0.927 0.928 0.621 0.677 0.665 0.721 0.690 0.718 0.729 0.732 0.788 0.801 0.857 0.857 0.858 0.858 0.499 0.537 0.534 0.572 0.554 0.576 0.579 0.627 0.632 0.671 0.671 0.671 0.672 0.672 0.431 0.460 0.461 0.490 0.478 0.495 0.507 0.534 0.565 0.565 0.565 0.566 0.400 0.425 0.428 0.453 0.445 0.458 0.471 0.492 0.493 0.517 0.517 0.518 0.299 0.309 0.319 0.330 0.332 0.332 0.332 0.342 0.342 0.352 0.352 0.352 0.352 0.278 0.285 0.296 0.303 0.303 0.304 0.304 0.308 0.310 0.309 0.317 0.317 0.317 0.317 0.240 0.244 0.253 0.257 0.257 0.257 0.259 0.259 0.259 0.263 0.263 0.263 0.263 0.263 0.144 0.145 0.148 0.150 0.150 0.150 0.150 0.150 0.150 0.151 0.151 0.151 0.151 0.072 0.072 0.072 0.073 0.073 0.073 0.073 0.073 0.073 0.073 0.073 0.073 0.073 0.073 Expense SL 3 SL 3 0.787 0.770 0.837 0.799 0.832 0.847 0.913 0.933 1.001 1.003 1.003 1.003 1.005 0.581 0.574 0.618 0.596 0.620 0.625 0.632 0.678 0.685 0.729 0.729 0.729 0.730 0.730 0.393 0.398 0.419 0.413 0.424 0.424 0.436 0.451 0.452 0.472 0.472 0.472 1.098 1.051 1.149 1.094 1.141 1.163 1.162 1.255 1.291 1.388 1.403 1.405 1.392 1.407 1.409 0.627 0.618 0.668 0.641 0.668 0.675 0.680 0.731 0.791 0.791 0.791 0.792 0.792 0.335 0.344 0.357 0.356 0.361 0.370 0.377 0.377 0.390 0.390 0.390 0.390 0.390 SL 3 MACRS 5 MACRS 5 MACRS 7 SL 15 MACRS 20 ADR-SYD 6 ADR-SYD 6 ADR-SYD 6 ADR-SYD 12 SL 15
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 35
ADR-SYD 35
ADR-SYD 35 \$ 601,248 46 Calculated PVRR by Year (2005 Dollars) - \$ - \$ 14.585 \$ 140.380 \$ 76.004 \$ 68.469 \$ 153.226 \$ 16.331 \$ 16.554 \$ 13.319 \$ 14.995 \$ 14.018 \$ 12.205 \$ 11.784 \$ 7.775 \$ 7.761 \$ 7.152 \$ 6,440 \$ 6,294 \$ 5.975 S 2,916 \$ 2,578 \$ 1.578 \$ 106 - \$ - \$ 18,170 \$ 174,880 \$ 94,883 \$ 85,296 \$ 190,883 \$ 20,344 \$ 20,622 \$ 16,593 \$ 18,680 \$ 17,463 \$ 15,204 \$ 14,880 \$ 9,685 \$ 9,689 \$ 8,909 \$ 8,023 \$ 7,840 \$ 7,443 \$ 3,632 \$ 3,212 \$ 47 Calculated PVRR by Year (2008 Dollars) \$ 749,015 \$ - \$ 1,965 \$ 1.005 \$ 132

- \$ - \$ - \$ 3,041 \$ 6,223 \$ 5,784 \$ 1,290 \$ 1,199 \$ 1,114 \$ 1,035 \$ 962 \$ 894 \$ 831 \$

772 \$ 718 \$ 667 \$

620 \$

576 \$

535 \$ 498 \$

431 \$

48 Calculated PVRR by Year - PTR Program Costs (2008 Dollars)

Pacific Gas and Electric Company Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013 WORKPAPER 2 - Updated Cost Tables in Support of Table 3 / Workpaper 1

09-03-026 SmartMeter Upgrade																																
ctual Project Costs	Profile [a]	Federal Tax		Book [c]	2005-2013	2011-2030	PVRR (2005)	PVRR (2008)	2005	2006	2007	2008	2009	2010	2011	2012	2013 20	4 2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ectric Meters	13	MACRS 20	ADR-SYD 30	30 \$	-	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	-															
ctric Meters - COR	2	Expense	Expense	15 \$	-	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	-															
art Electric Meters	13	MACRS 20	ADR-SYD 30	30 S	291,886 20.768	\$	303,829 \$ 16.831 \$	378,500 \$ 20,968 \$	- \$	- \$	- \$	18,777 \$ 5.413 \$	120,448 \$ 6.222 \$	3.985 \$	35,008 \$ 3.141 \$	6,970 \$	267 115															
S Mainframe Comp SW S Mainframe Comp HW	2	Expense MACRS 5	Expense ADR-SYD 6	15 \$	20,768	\$	16,831 \$	20,968 \$	- \$	- \$	- \$			3,985 \$ 1,375 \$	3,141 \$ 475 \$	1,892 \$ 13 \$	115															
ectric Modules	12	MACRS 20		20 \$	79,324	a a	83,046 \$		- 3	- 3	- \$ - \$	109 \$ 25,925 \$		13,004 \$	18,305 \$	2,655 \$	173															
	12			20 3	79,324	a e	03,040 \$	103,450 \$	- 3	- 3	- 3	20,920 \$	19,201 \$	13,004 \$	10,305 \$	2,000 \$	1/3															
vorks total - Capital	12	MACRS 20	ADR-SYD 30		394,263 \$	- \$	405.641 \$	505.334 \$	- 3	- 3	- 3	50.225 \$	1/6 2/3 \$	- \$ 128.780 \$	56,929 \$	11 530 \$	556 \$ -	S -	S - S	- \$	- S	- \$. «	- S	- S	- S	- \$	- S	- \$	- S	- \$	
totai - Capitai				•	394,203 φ	- 9	405,041 \$	303,334 ø	- •	- •	- •	30,223 ¢	140,243 \$	120,700 \$	30,929 ş	11,550 ф	550 a -	• -	9 - 9	- •	- •	- •	- 4	- 9	- 0	- •	- v	- •	- 9	- •	- v	- ,
ense - Other	1	Expense	Expense		16,787 16,787 \$	- \$	12,285 \$ 12,285 \$	15,304 \$ 15,304 \$	- \$	- \$	- \$		5,214 \$		3,579 \$ 3,579 \$	589 \$ 589 \$	4 \$ -							•		•						
total - Expense				•		- \$	12,200 \$		- \$								4 \$ -	\$ -	\$ - \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- 1
otal				\$	411,050 \$	- \$	417,925 \$	520,638 \$	- \$	- \$	- \$	52,218 \$	151,457 \$	134,188 \$	60,508 \$	12,119 \$	560 \$ -	\$ -	\$ - \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
ected GRC Costs	Profile [a]	Federal Tax		Book [c]	2005-2013	2011-2030	PVRR (2005)	PVRR (2008)	2005	2006	2007	2008	2009	2010	2011	2012	2013 20			2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Electric Meters	13	MACRS 20	ADR-SYD 30	30	\$	57,975 \$							\$	- \$	243 \$	333 \$		98 \$ 3,245		4,101 \$	5,025 \$	5,236 \$	5,259 \$	5,235 \$	5,370 \$	5,488 \$	5,546 \$	5,453 \$	- \$	- \$	- \$	- \$
ric Modules	12	MACRS 20	ADR-SYD 30	20	\$	6,765 \$							\$	- \$	218 \$	239 \$		7 \$ 363		302 \$	521 \$	566 \$	565 \$	552 \$	578 \$	600 \$	607 \$	577 \$	- \$	- \$	- \$	- \$
ainframe Comp HW	7	MACRS 5	ADR-SYD 6	15	\$	4,409 \$							\$	- \$	- \$	- \$	2,192 \$ -	s -	Ÿ	1,144 \$	- \$	- \$	- \$	597 \$	- \$	- \$	- \$	312 \$	- \$	- \$	- \$	163
ainframe Comp SW	2	Expense	Expense	15	\$	- \$	- \$	-					\$	- \$	- \$	- \$	- \$ -	s -	•	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
are - Expensed (Book)	3	SL 3	SL 3	-	\$	- \$	- \$	-					\$	- \$	- \$	- \$	- \$ -	\$ -		- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
nses - TOU Program Costs	1 1	Expense	Expense		\$	176,178 \$							\$	- \$	- \$	- \$	- \$ -	\$ 666	\$ 7,441 \$		28,054 \$	32,831 \$	8,700 \$	8,779 \$	8,862 \$	8,948 \$	9,035 \$	9,118 \$	9,201 \$		9,370 \$	
enses - T-24 PCT Program Costs	1 1	Expense	Expense		\$	- \$							\$	- \$	- \$	- \$	- \$ -	\$ -	\$ - \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	
enses - Other	1	Expense	Expense		\$	19,599 \$		9,999		_			\$	- \$	2,311 \$	1,590 \$		938		1,011 \$	1,050 \$		1,138 \$	1,184 \$	1,232 \$	1,283 \$	1,336 \$	1,390 \$	242 \$		258 \$	
otal				\$	- \$	264,927 \$	92,369 \$	115,070 \$	- \$	- \$	- \$	- \$	- \$	- \$	2,772 \$	2,162 \$	4,215 \$ 3,4	9 \$ 5,212	\$ 13,237 \$	13,447 \$	34,650 \$	39,727 \$	15,662 \$	16,348 \$	16,042 \$	16,319 \$	16,524 \$	16,850 \$	9,443 \$	9,536 \$	9,629 \$	9,886
				5	411,050 \$	264,927 \$	510,294 \$	635,707 \$	- \$	- S	- S	52 218 \$	151 457 \$	134 188 \$	63.280 \$	14 280 \$	4774 \$ 3.44	19 \$ 5.212	\$ 13,237 \$	13 447 \$	34 650 \$	39 727 \$	15.662 \$	16.348 \$	16 042 \$	16.319 \$	16.524 \$	16.850 \$	9 443 \$	9.536 \$	9 629 \$	9.886 5
R Factors from Original AMI Filing	D. G. (1)	F. 1	O	B													V								Year 17							
R Factors by Cost Profile [b]	Profile [a]	Federal Tax		Book [c]				_	Year 0	Year 1	rear 2	Year 3	Year 4 0.964	Year 5 0.896	Year 6	Year 7 0.774	Year 8 Year 0.719 0.66		Year 11 0.577	Year 12 0.537	Year 13		Year 15 0.431	Year 16 0.400	7ear 17 0.372	Year 18 0.346	Year 19 0.321	Year 20	Year 21	Year 22 0.240	Year 23 0.144	Year 24
		Expense	Expense	- 15								1.000 1.098	1.055	0.896	0.833 0.911		0.719 0.60 0.787 0.73			0.581	0.499 0.537	0.463 0.497	0.460	0.425	0.372	0.363	0.321	0.299	0.278 0.285	0.240	0.144	0.072
	2	Expense	Expense									1.096	1.032	0.959	0.891		0.767 0.77			0.574	0.534	0.497	0.460	0.425	0.398	0.363	0.335	0.309 0.319	0.205	0.244	0.148	0.072 0.072
	3	SL 3 SL 3	SL 3 SL 3	15								1.051	1.032	1.043	0.891		0.837 0.77		0.668	0.574	0.534	0.496	0.490	0.428	0.396	0.370	0.344	0.319	0.296	0.253	0.146	0.072
	4	MACRS 5	ADR-SYD 6	15								1.149	1.071	0.995	0.970		0.637 0.74			0.596	0.572		0.490	0.455	0.413	0.384	0.356	0.330	0.303	0.257	0.150	0.073
	5	MACRS 5	ADR-SYD 6	3								1.094	1.071	1.036	0.925		0.832 0.7			0.596	0.576	0.535	0.476	0.458	0.424	0.364	0.361	0.332	0.303	0.257	0.150	0.073
	6	MACRS 5		10								1.141		1.036						0.625		0.535		0.458	0.424						0.150	
	(ADR-SYD 6	15									1.135		0.980		0.847 0.78				0.579		0.495			0.391	0.361	0.332	0.304	0.257		0.073
	8	MACRS 7	ADR-SYD 12	7								1.162	1.136	1.056	0.981		0.847 0.78			0.632	0.587	0.546	0.507	0.471	0.436	0.403	0.370	0.339	0.308	0.259	0.150	0.073
	9	SL 15	SL 15	-								1.255	1.225	1.138	1.058		0.913 0.84			0.678	0.627	0.579	0.534	0.492	0.451	0.413	0.377	0.342	0.310	0.259	0.150	0.073
	10	MACRS 20	ADR-SYD 30	-								1.291	1.257	1.167	1.084		0.933 0.80			0.685	0.632	0.583	0.536	0.493	0.452	0.413	0.377	0.342	0.309	0.259	0.150	0.073
	11	MACRS 20	ADR-SYD 30	15								1.388	1.348	1.252	1.163		1.001 0.93			0.729	0.671	0.616	0.565	0.517	0.472	0.430	0.390	0.352	0.317	0.263	0.151	0.073
	12	MACRS 20	ADR-SYD 30	20								1.403	1.361	1.262	1.170	1.084	1.003 0.93			0.729	0.671	0.616	0.565	0.517	0.472	0.430	0.390	0.352	0.317	0.263	0.151	0.073
	13	MACRS 20	ADR-SYD 30	30								1.405	1.361	1.262	1.170	1.084	1.003 0.93			0.729	0.671	0.616	0.565	0.517	0.472	0.430	0.390	0.352	0.317	0.263	0.151	0.073
	14	MACRS 20	ADR-SYD 35	15								1.392	1.351	1.255	1.165	1.081	1.003 0.93			0.730	0.672		0.566	0.518	0.473	0.430	0.390	0.352	0.317	0.263	0.151	0.073
			ADR-SYD 35	20								1.407	1.364	1.265	1.173		1.005 0.93			0.730	0.672		0.566	0.518	0.473	0.430	0.390	0.352	0.317	0.263	0.151	0.073
	15	MACRS 20											1.365		1.173	1.086	1.005 0.92	9 0.858	0.792	0.730	0.672	0.617	0.566	0.518	0.473	0.430	0.390	0.352	0.317	0.263	0.151	0.073
	15 16	MACRS 20 MACRS 20	ADR-SYD 35	24								1.409	1.303	1.265																		
	16	MACRS 20	ADR-SYD 35 State Tax		2005-2013		PVRR (2005)		2005	2006	2007	2008	2009	2010	2011		2013 20			2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	16	MACRS 20			2005-2013 (55,710) \$	2011-2030 (162,777) \$		PVRR (2008) (113,308) \$	2005	2006			2009	2010	2011				2016 \$ (16,524) \$							2023 (5,271) \$		2025 (6,873) \$	2026 (3,645) \$			
	16	MACRS 20					(90,954) \$ PVRR (2005)		- \$ 2005	- \$ 2006	- \$ 2007	2008 38,088 \$	2009 14,978 \$ 2009	2010 56,298 \$	(16,047) \$ (1	175,981) \$ (2012	20,986) \$ (24,6)	(2) \$ (19,155) (4 2015	\$ (16,524) \$ 2016	(16,372) \$ 2017	6,578 \$ 2018	10,336 \$ 2019	(4,684) \$ 2020	(5,737) \$ 2021	(6,099) \$ 2022	(5,271) \$ 2023	(6,473) \$ 2024	(6,873) \$ 2025	(3,645) \$ 2026	(3,835) \$	(4,016) \$ 2028	(4,161) \$
ic	16	MACRS 20					(90,954) \$ PVRR (2005) 468,841	(113,308) \$ PVRR (2008) \$	- \$ 2005 - \$	- \$ 2006 - \$	- \$ 2007 - \$	2008 38,088 \$ 2008 50,375 \$	2009 14,978 \$ 2009 152,652 \$	2010 56,298 \$ 2010 125,056 \$	(16,047) \$ (1 2011 50,500 \$	75,981) \$ (2012 8,869 \$	20,986) \$ (24,6) 2013 20 1,281 \$ 1,89	(19,155) (14 2015 (95 \$ 2,813	\$ (16,524) \$ 2016 \$ 6,509 \$	(16,372) \$ 2017 5,542 \$	6,578 \$ 2018 14,215 \$	10,336 \$ 2019 15,084 \$	(4,684) \$ 2020 5,651 \$	(5,737) \$ 2021 5,225 \$	(6,099) \$ 2022 4 902 \$	(5,271) \$ 2023 4,585 \$	(6,473) \$ 2024 4,257 \$	(6,873) \$ 2025 3,891 \$	(3,645) \$ 2026 2,050 \$	(3,835) \$ 2027 1,790 \$	(4,016) \$ 2028 1,083 \$	(4,161) \$ 2029 543 \$
ic	16	MACRS 20					(90,954) \$ PVRR (2005) 468,841 41,453	(113,308) \$ PVRR (2008) \$	- \$ 2005	- \$ 2006 - \$ - \$	- \$ 2007 - \$ - \$	2008 38,088 \$ 2008 50,375 \$ 6,471 \$	2009 14,978 \$ 2009 152,652 \$ 9,589 \$	2010 56,298 \$ 2010 125,056 \$ 8,190 \$	(16,047) \$ (1 2011 50,500 \$ 6,608 \$	2012 8,869 \$ 2,649 \$	20,986) \$ (24,6) 2013 20 1,281 \$ 1,89 2,068 \$ 44	(19,155) (19,155)	\$ (16,524) \$ 2016 \$ 6,509 \$ \$ 451 \$	(16,372) \$ 2017 5,542 \$ 1,010 \$	6,578 \$ 2018 14,215 \$ 420 \$	10,336 \$ 2019 15,084 \$ 407 \$	(4,684) \$ 2020 5,651 \$ 393 \$	(5,737) \$ 2021 5,225 \$ 600 \$	(6,099) \$ 2022 4,902 \$ 368 \$	(5,271) \$ 2023 4,585 \$ 356 \$	(6,473) \$ 2024 4,257 \$ 345 \$	(6,873) \$ 2025 3,891 \$ 416 \$	(3,645) \$ 2026 2,050 \$ 54 \$	(3,835) \$ 2027 1,790 \$ 48 \$	(4,016) \$ 2028 1,083 \$ 30 \$	(4,161) \$ 2029 543 \$ 25 \$
ric	16	MACRS 20					(90,954) \$ PVRR (2005) 468,841	(113,308) \$ PVRR (2008) \$	- \$ 2005 - \$	- \$ 2006 - \$ - \$	- \$ 2007 - \$ - \$	2008 38,088 \$ 2008 50,375 \$ 6,471 \$	2009 14,978 \$ 2009 152,652 \$ 9,589 \$	2010 56,298 \$ 2010 125,056 \$ 8,190 \$	(16,047) \$ (1 2011 50,500 \$ 6,608 \$	2012 8,869 \$ 2,649 \$	20,986) \$ (24,6) 2013 20 1,281 \$ 1,89 2,068 \$ 44	(19,155) (19,155)	\$ (16,524) \$ 2016 \$ 6,509 \$	(16,372) \$ 2017 5,542 \$ 1,010 \$	6,578 \$ 2018 14,215 \$ 420 \$	10,336 \$ 2019 15,084 \$ 407 \$	(4,684) \$ 2020 5,651 \$ 393 \$	(5,737) \$ 2021 5,225 \$ 600 \$	(6,099) \$ 2022 4,902 \$ 368 \$	(5,271) \$ 2023 4,585 \$ 356 \$	(6,473) \$ 2024 4,257 \$ 345 \$	(6,873) \$ 2025 3,891 \$ 416 \$	(3,645) \$ 2026 2,050 \$	(3,835) \$ 2027 1,790 \$ 48 \$	(4,016) \$ 2028 1,083 \$ 30 \$	(4,161) \$ 2029 543 \$ 25 \$
tric Network Ibined	16	MACRS 20					(90,954) \$ PVRR (2005) 468,841 41,453	(113,308) \$ PVRR (2008) \$	- \$ 2005 - \$	- \$ 2006 - \$ - \$	- \$ 2007 - \$ - \$	2008 38,088 \$ 2008 50,375 \$ 6,471 \$	2009 14,978 \$ 2009 152,652 \$ 9,589 \$	2010 56,298 \$ 2010 125,056 \$ 8,190 \$	(16,047) \$ (1 2011 50,500 \$ 6,608 \$	2012 8,869 \$ 2,649 \$	20,986) \$ (24,6) 2013 20 1,281 \$ 1,89 2,068 \$ 44	(19,155) (19,155)	\$ (16,524) \$ 2016 \$ 6,509 \$ \$ 451 \$	(16,372) \$ 2017 5,542 \$ 1,010 \$	6,578 \$ 2018 14,215 \$ 420 \$	10,336 \$ 2019 15,084 \$ 407 \$	(4,684) \$ 2020 5,651 \$ 393 \$	(5,737) \$ 2021 5,225 \$ 600 \$	(6,099) \$ 2022 4,902 \$ 368 \$	(5,271) \$ 2023 4,585 \$ 356 \$	(6,473) \$ 2024 4,257 \$ 345 \$	(6,873) \$ 2025 3,891 \$ 416 \$	(3,645) \$ 2026 2,050 \$ 54 \$	(3,835) \$ 2027 1,790 \$ 48 \$	(4,016) \$ 2028 1,083 \$ 30 \$	(4,161) \$ 2029 543 \$ 25 \$
ric etwork oined ılated PVRR by Year (2008 Dollars)	16	MACRS 20					(90,954) \$ PVRR (2005) 468,841 41,453	(113,308) \$ PVRR (2008) \$	- \$ 2005 - \$	- \$ 2006 - \$ - \$	- \$ 2007 - \$ - \$ - \$	2008 38,088 \$ 2008 50,375 \$ 6,471 \$ 56,846 \$	2009 14,978 \$ 2009 152,652 \$ 9,589 \$ 162,241 \$	2010 56,298 \$ 2010 125,056 \$ 8,190 \$ 133,246 \$	(16,047) \$ (1 2011 50,500 \$ 6,608 \$ 57,107 \$	2012 8,869 \$ 2,649 \$ 11,518 \$	20,986) \$ (24,6) 2013 20 1,281 \$ 1,89 2,068 \$ 44	(2) \$ (19,155) (4 2015) (5) \$ 2,813 (6) \$ 3,281	2016 \$ 6,509 \$ \$ 451 \$ \$ 6,961 \$	2017 5,542 \$ 1,010 \$ 6,552 \$	6,578 \$ 2018 14,215 \$ 420 \$ 14,636 \$	10,336 \$ 2019 15,084 \$ 407 \$	(4,684) \$ 2020 5,651 \$ 393 \$ 6,044 \$	(5,737) \$ 2021 5,225 \$ 600 \$ 5,825 \$	(6,099) \$ 2022 4,902 \$ 368 \$	(5,271) \$ 2023 4,585 \$ 356 \$	(6,473) \$ 2024 4,257 \$ 345 \$ 4,601 \$	(6,873) \$ 2025 3,891 \$ 416 \$ 4,308 \$	(3,645) \$ 2026 2,050 \$ 54 \$	(3,835) \$ 2027 1,790 \$ 48 \$ 1,839 \$	(4,016) \$ 2028 1,083 \$ 30 \$	(4,161) \$ 2029 543 \$ 25 \$ 568 \$
ic strong to the	16	MACRS 20					(90,954) \$ PVRR (2005) 468,841 41,453	(113,308) \$ PVRR (2008) \$ \$ \$ \$ \$ 584,067 \$	- \$ 2005 - \$ - \$ - \$	- \$ 2006 - \$ - \$ - \$	- \$ 2007 - \$ - \$ - \$	2008 38,088 \$ 2008 50,375 \$ 6,471 \$ 56,846 \$	2009 14,978 \$ 2009 152,652 \$ 9,589 \$ 162,241 \$ 190,169 \$	2010 56,298 \$ 2010 125,056 \$ 8,190 \$ 133,246 \$ 155,791 \$	(16,047) \$ (1 2011 50,500 \$ 6,608 \$ 57,107 \$ 62,911 \$	2012 8,869 \$ 2,649 \$ 11,518 \$	20,986) \$ (24,6° 2013 20° 1,281 \$ 1,88° 2,068 \$ 44° 3,349 \$ 2,36° 1,596 \$ 2,36°	(19,155) (19,155) (14 2015) (15 \$ 2,813) (15 \$ 468) (16 \$ 3,281) (17 \$ 3,505)	2016 \$ 6,509 \$ \$ 451 \$ \$ 6,961 \$	(16,372) \$ 2017 5,542 \$ 1,010 \$ 6,552 \$ 6,905 \$	6,578 \$ 2018 14,215 \$ 420 \$ 14,636 \$	10,336 \$ 2019 15,084 \$ 407 \$ 15,491 \$	(4,684) \$ 2020 5,651 \$ 393 \$ 6,044 \$ 7,040 \$	(5,737) \$ 2021 5,225 \$ 600 \$ 5,825 \$	(6,099) \$ 2022 4,902 \$ 368 \$ 5,270 \$	(5,271) \$ 2023 4,585 \$ 356 \$ 4,941 \$ 5,711 \$	(6,473) \$ 2024 4,257 \$ 345 \$ 4,601 \$ 5,303 \$	(6,873) \$ 2025 3,891 \$ 416 \$ 4,308 \$	(3,645) \$ 2026 2,050 \$ 54 \$ 2,104 \$ 2,553 \$	(3,835) \$ 2027 1,790 \$ 48 \$ 1,839 \$	(4,016) \$ 2028 1,083 \$ 30 \$ 1,113 \$ 1,350 \$	(4,161) \$ 2029 543 \$ 25 \$ 568 \$ 677 \$
ric letwork bined ulated PVRR by Year (2008 Dollars) ric etwork	16	MACRS 20					(90,954) \$ PVRR (2005) 468,841 41,453	(113,308) \$ PVRR (2008) \$ \$ \$ \$ \$ 584,067 \$	- \$ 2005 - \$ - \$ - \$	- \$ 2006 - \$ - \$ - \$	- \$ 2007 - \$ - \$ - \$ - \$ - \$	2008 38,088 \$ 2008 50,375 \$ 6,471 \$ 56,846 \$ 62,755 \$ 8,062 \$	2009 14,978 \$ 2009 152,652 \$ 9,589 \$ 162,241 \$ 190,169 \$ 11,945 \$	2010 56,298 \$ 2010 125,056 \$ 8,190 \$ 133,246 \$ 155,791 \$ 10,203 \$	(16,047) \$ (1 2011 50,500 \$ 6,608 \$ 57,107 \$ 62,911 \$ 8,232 \$	2012 8,869 \$ 2,649 \$ 11,518 \$ 11,049 \$ 3,300 \$	20,986) \$ (24,6) 2013 20 1,281 \$ 1,88 2,068 \$ 44 3,349 \$ 2,34 1,596 \$ 2,34 2,576 \$ 66	(19,155) (19,155)	\$ (16,524) \$ 2016 \$ 6,509 \$ 451 \$ \$ 6,961 \$ \$ 8,109 \$	(16,372) \$ 2017 5,542 \$ 1,010 \$ 6,552 \$ 6,905 \$ 1,258 \$	6,578 \$ 2018 14,215 \$ 420 \$ 14,636 \$ 17,709 \$ 524 \$	10,336 \$ 2019 15,084 \$ 407 \$ 15,491 \$ 18,791 \$ 507 \$	(4,684) \$ 2020 5,651 \$ 393 \$ 6,044 \$ 7,040 \$ 490 \$	(5,737) \$ 2021 5,225 \$ 600 \$ 5,825 \$ 6,509 \$ 748 \$	(6,099) \$ 2022 4,902 \$ 368 \$ 5,270 \$	(5,271) \$ 2023 4,585 \$ 356 \$ 4,941 \$ 5,711 \$ 444 \$	(6,473) \$ 2024 4,257 \$ 345 \$ 4,601 \$ 5,303 \$ 429 \$	(6,873) \$ 2025 3,891 \$ 416 \$ 4,308 \$ 4,848 \$ 519 \$	(3,645) \$ 2026 2,050 \$ 54 \$ 2,104 \$ 2,553 \$	(3,835) \$ 2027 1,790 \$ 48 \$ 1,839 \$ 2,231 \$ 60 \$	(4,016) \$ 2028 1,083 \$ 30 \$ 1,113 \$ 1,350 \$	(4,161) \$ 2029 543 \$ 25 \$ 568 \$ 677 \$ 31 \$
ric etwork bined dated PVRR by Year (2008 Dollars) ric etwork	16 Profile [a]	MACRS 20 Federal Tax					(90,954) \$ PVRR (2005) 468,841 41,453	(113,308) \$ PVRR (2008) \$ \$ \$ 584,067 \$ 51,641 \$ 635,707 \$	- \$ 2005 - \$ - \$ - \$ - \$ - \$ - \$	- \$ 2006 - \$ - \$ - \$ - \$ - \$	- \$ 2007 - \$ - \$ - \$ - \$ - \$ - \$ - \$	2008 38,088 \$ 2008 50,375 \$ 6,471 \$ 56,846 \$ 62,755 \$ 8,062 \$ 70,817 \$	2009 14,978 \$ 2009 152,652 \$ 9,589 \$ 162,241 \$ 190,169 \$ 11,945 \$ 202,114 \$	2010 56,298 \$ 2010 125,056 \$ 8,190 \$ 133,246 \$ 155,791 \$ 10,203 \$ 165,994 \$	(16,047) \$ (1 2011 50,500 \$ 6,608 \$ 57,107 \$ 62,911 \$ 8,232 \$ 71,143 \$	75,981) \$ (2012 8,869 \$ 2,649 \$ 11,518 \$ 11,049 \$ 3,300 \$ 14,349 \$	20,986) \$ (24,6) 2013 20 1,281 \$ 1,8 2,068 \$ 44 3,349 \$ 2,34 1,596 \$ 2,34 2,576 \$ 66 4,172 \$ 2,96	(19,155) (4	\$ (16,524) \$ 2016 \$ 6,509 \$ \$ 451 \$ \$ 6,961 \$ \$ 8,109 \$ \$ 562 \$ \$ 8,671 \$	(16,372) \$ 2017 5,542 \$ 1,010 \$ 6,552 \$ 6,905 \$ 1,258 \$ 8,163 \$	6,578 \$ 2018 14,215 \$ 420 \$ 14,636 \$ 17,709 \$ 524 \$ 18,233 \$	10,336 \$ 2019 15,084 \$ 407 \$ 15,491 \$ 18,791 \$ 507 \$ 19,298 \$	(4,684) \$ 2020 5,651 \$ 393 \$ 6,044 \$ 7,040 \$ 490 \$ 7,530 \$	(5,737) \$ 2021 5,225 \$ 600 \$ 5,825 \$ 6,509 \$ 748 \$ 7,256 \$	(6,099) \$ 2022 4,902 \$ 368 \$ 5,270 \$ 6,107 \$ 458 \$ 6,565 \$	(5,271) \$ 2023 4,585 \$ 356 \$ 4,941 \$ 5,711 \$ 444 \$ 6,155 \$	(6,473) \$ 2024 4,257 \$ 345 \$ 4,601 \$ 5,303 \$ 429 \$ 5,732 \$	(6,873) \$ 2025 3,891 \$ 416 \$ 4,308 \$ 4,848 \$ 519 \$ 5,366 \$	(3,645) \$ 2026 2,050 \$ 54 \$ 2,104 \$ 2,553 \$ 67 \$ 2,621 \$	(3,835) \$ 2027 1,790 \$ 48 \$ 1,839 \$ 2,231 \$ 60 \$ 2,291 \$	(4,016) \$ 2028 1,083 \$ 30 \$ 1,113 \$ 1,350 \$ 37 \$ 1,387 \$	(4,161) \$ 2029 543 \$ 25 \$ 568 \$ 677 \$ 31 \$ 707 \$
tric Vetwork bined ulated PVRR by Year (2008 Dollars) tric betwork bined	16 Profile [a]	MACRS 20 Federal Tax					(90,954) \$ PVRR (2005) 468,841 41,453	(113,308) \$ PVRR (2008) \$ \$ \$ \$ 584,067 \$ 51,641 \$	- \$ 2005 - \$ - \$ - \$ - \$ - \$ - \$	- \$ 2006 - \$ - \$ - \$ - \$ - \$	- \$ 2007 - \$ - \$ - \$ - \$ - \$ - \$ - \$	2008 38,088 \$ 2008 50,375 \$ 6,471 \$ 56,846 \$ 62,755 \$ 8,062 \$ 70,817 \$	2009 14,978 \$ 2009 152,652 \$ 9,589 \$ 162,241 \$ 190,169 \$ 11,945 \$ 202,114 \$	2010 56,298 \$ 2010 125,056 \$ 8,190 \$ 133,246 \$ 155,791 \$ 10,203 \$ 165,994 \$	(16,047) \$ (1 2011 50,500 \$ 6,608 \$ 57,107 \$ 62,911 \$ 8,232 \$	75,981) \$ (2012 8,869 \$ 2,649 \$ 11,518 \$ 11,049 \$ 3,300 \$ 14,349 \$	20,986) \$ (24,6) 2013 20 1,281 \$ 1,8 2,068 \$ 44 3,349 \$ 2,34 1,596 \$ 2,34 2,576 \$ 66 4,172 \$ 2,96	(19,155) (19,155)	\$ (16,524) \$ 2016 \$ 6,509 \$ \$ 451 \$ \$ 6,961 \$ \$ 8,109 \$ \$ 562 \$ \$ 8,671 \$	(16,372) \$ 2017 5,542 \$ 1,010 \$ 6,552 \$ 6,905 \$ 1,258 \$ 8,163 \$	6,578 \$ 2018 14,215 \$ 420 \$ 14,636 \$ 17,709 \$ 524 \$ 18,233 \$	10,336 \$ 2019 15,084 \$ 407 \$ 15,491 \$ 18,791 \$ 507 \$	(4,684) \$ 2020 5,651 \$ 393 \$ 6,044 \$ 7,040 \$ 490 \$ 7,530 \$	(5,737) \$ 2021 5,225 \$ 600 \$ 5,825 \$ 6,509 \$ 748 \$ 7,256 \$	(6,099) \$ 2022 4,902 \$ 368 \$ 5,270 \$ 6,107 \$ 458 \$ 6,565 \$	(5,271) \$ 2023 4,585 \$ 356 \$ 4,941 \$ 5,711 \$ 444 \$ 6,155 \$	(6,473) \$ 2024 4,257 \$ 345 \$ 4,601 \$ 5,303 \$ 429 \$ 5,732 \$	(6,873) \$ 2025 3,891 \$ 416 \$ 4,308 \$ 4,848 \$ 519 \$ 5,366 \$	(3,645) \$ 2026 2,050 \$ 54 \$ 2,104 \$ 2,553 \$ 67 \$ 2,621 \$	(3,835) \$ 2027 1,790 \$ 48 \$ 1,839 \$ 2,231 \$ 60 \$	(4,016) \$ 2028 1,083 \$ 30 \$ 1,113 \$ 1,350 \$ 37 \$ 1,387 \$	(4,161) \$ 2029 543 \$ 25 \$ 568 \$ 677 \$ 31 \$ 707 \$
a Lulated PVRR by Year (2005 Dollars) One of the Vetwork United PVRR by Year (2008 Dollars) One of the Vetwork Dibined Lulated PVRR by Year - TOU Program Co	16 Profile [a] Costs (2008 Dollars)	MACRS 20 Federal Tax	State Tax				(90,954) \$ PVRR (2005) 468,841 41,453	(113,308) \$ PVRR (2008) \$ \$ \$ \$ 584,067 \$ 51,641 \$ 635,707 \$ \$ 63,784 \$	- \$ 2005 - \$ - \$ - \$ - \$ - \$ - \$	- \$ 2006 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ 2007 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	2008 38,088 \$ 2008 50,375 \$ 6,471 \$ 56,846 \$ 62,755 \$ 8,062 \$ 70,817 \$ - \$	2009 14,978 \$ 2009 152,652 \$ 9,589 \$ 162,241 \$ 190,169 \$ 11,945 \$ 202,114 \$ - \$	2010 56,298 \$ 2010 125,056 \$ 8,190 \$ 133,246 \$ 155,791 \$ 10,203 \$ 165,994 \$ - \$	(16,047) \$ (1,04	(75,981) \$ (2012 (8,869 \$ (2,649 \$) (1,518 \$ (1,049 \$ (3,300 \$ (1,349 \$ (3,349 \$ (20,986) \$ (24,6) 2013 20 1,281 \$ 1,81 2,068 \$ 4i 3,349 \$ 2,3i 1,596 \$ 2,3i 2,576 \$ 6i 4,172 \$ 2,9i - \$ -	(19,155) (4	\$ (16,524) \$ 2016 \$ 6,509 \$ \$ 451 \$ \$ 6,961 \$ \$ 8,109 \$ \$ 8,671 \$ \$ 4,296 \$	(16,372) \$ 2017 5,542 \$ 1,010 \$ 6,552 \$ 6,905 \$ 1,258 \$ 8,163 \$ 3,696 \$	6,578 \$ 2018 14,215 \$ 420 \$ 14,636 \$ 17,709 \$ 524 \$ 18,233 \$ 13,989 \$	10,336 \$ 2019 15,084 \$ 407 \$ 15,491 \$ 18,791 \$ 507 \$ 19,298 \$	2020 5,651 \$ 393 \$ 6,044 \$ 7,040 \$ 490 \$ 7,530 \$ 3,747 \$	(5,737) \$ 2021 5,225 \$ 600 \$ 5,825 \$ 6,509 \$ 748 \$ 7,256 \$ 3,514 \$	(6,099) \$ 2022 4,902 \$ 368 \$ 5,270 \$ 6,107 \$ 458 \$ 6,565 \$ 3,297 \$	(5,271) \$ 2023 4,585 \$ 356 \$ 4,941 \$ 5,711 \$ 444 \$ 6,155 \$ 3,093 \$	(6,473) \$ 2024 4,257 \$ 345 \$ 4,601 \$ 5,303 \$ 429 \$ 5,732 \$ 2,903 \$	(6,873) \$ 2025 3,891 \$ 416 \$ 4,308 \$ 4,848 \$ 519 \$ 5,366 \$ 2,723 \$	(3,645) \$ 2026 2,050 \$ 54 \$ 2,104 \$ 2,553 \$ 67 \$ 2,621 \$ 2,553 \$	(3,835) \$ 2027 1,790 \$ 48 \$ 1,839 \$ 2,231 \$ 60 \$ 2,291 \$ 2,231 \$	(4,016) \$ 2028 1,083 \$ 30 \$ 1,113 \$ 1,350 \$ 37 \$ 1,387 \$ 1,350 \$	(4,161) \$ 2029 543 \$ 25 \$ 568 \$ 677 \$ 31 \$ 707 \$

Pacific Gas and Electric Company Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013 WORKPAPER 2 - Updated Cost Tables in Support of Table 3 / Workpaper 1

Line

9-03-026 SmartMeter Upgrade																													
ual Project Costs		ook [c] 2005-2013	2011-2030	PVRR (2005)	PVRR (2008)	2005	2006	2007	2008	2009	2010	2011	2012 20	013 2014	2015	2016	2017	2018	2019 2	020	021	2022	2023	2024	2025	2026	2027	2028	2029
c Meters	11 MACRS 20/10* ADR-SYD 30	27 \$ -		\$ - \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$ -																
ters - COR		27 \$ -		\$ - \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$ -																
leters	12 MACRS 20/10* ADR-SYD 30	27 \$ 291,886		\$ 266,943 \$	332,549 \$	- \$	- \$	- \$	18,777 \$ 1	120,448 \$ 1	110,415 \$ 35	35,008 \$ (6,970 \$ 2	267															
np SW	6 SL 3* SL 3	15 \$ 20,768		\$ 17,542 \$	21,854 \$	- S	- \$	- S	5,413 \$	6,222 \$	3,985 \$ 3	3,141 \$	1,892 \$ 1	115															
mp HW	7 MACRS 5* ADR-SYD 6	15 \$ 2.285		\$ 1.877 \$	2.339 \$	- S	- S	- S	109 \$	312 S	1.375 \$	475 \$	13 \$	1															
	9 MACRS 20/10* ADR-SYD 30	20 \$ 79.324		\$ 73,341 \$	91,366 \$	- S	- S	- S	25,925 \$	19,261 \$	13.004 \$ 18	18.305 \$	2.655 \$ 1	173															
		20 S -		s	. \$. \$	- \$. \$	- \$	- S	- \$. \$	- \$																
	10 MACRO 20/10 ABROTE 30	\$ 394,263	\$ -	\$ 359,705 \$	448,108 \$	- \$	- \$	- \$	50,225 \$ 1	146,243 \$ 1	128,780 \$ 56	56,929 \$ 1	11,530 \$ 5	556 \$ - :	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
	1 Expense Expense	- \$ 16,787		\$ 12,285 \$	15,304 \$	- \$	- \$	- \$	1,994 \$	5,214 \$	5,408 \$ 3	3,579 \$	589 \$	4															
	,	\$ 16,787	\$ -	\$ 12,285 \$		- \$	- \$	- \$			5,408 \$ 3		589 \$	4 \$ -	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
-		\$ 411,050	\$ -	\$ 371,989 \$	463,412 \$	- \$	- \$	- \$	52,218 \$ 1	151,457 \$ 1	134,188 \$ 60	50,508 \$ 12	12,119 \$ 5	560 \$ - :	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
Costs		ook [c] 2005-2013	2011-2030	PVRR (2005)	PVRR (2008)	2005	2006	2007	2008	2009	2010	2011	2012 20		2015	2016	2017	2018	2019 2	1020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	12 MACRS 20/10* ADR-SYD 30	27	\$ 57,975	\$ 25,409 \$	31,654					\$	- \$	243 \$	333 \$ 8	336 \$ 2,198	3,245 \$	4,406 \$	4,101 \$	5,025 \$	5,236 \$ 5,	259 \$ 5	,235 \$	5,370 \$	5,488 \$	5,546 \$	5,453 \$	- \$	- \$	- \$	- \$
	9 MACRS 20/10* ADR-SYD 30	20	\$ 6,765							\$	- \$	218 \$	239 \$ 3	315 \$ 347	363 \$	416 \$	302 \$	521 \$	566 \$	565 \$	552 \$	578 \$	600 \$	607 \$	577 \$	- \$	- \$	- \$	- \$
	7 MACRS 5* ADR-SYD 6	15	\$ 4,409	\$ 2,337 \$	2,911					\$	- \$	- \$	- \$ 2,1	192 \$ - :	5 - \$	- \$	1,144 \$	- \$	- \$	- \$	597 \$	- \$	- \$	- \$	312 \$	- \$	- \$	- \$	163 \$
	6 SL 3* SL 3	15	S -	S - S						s	- S	- S	- S -	- S - :	s - \$	- S	- S	- S	- S	- S	- S	- S	- S	- S	- S	- S	- S	- \$	- S
:)	2 SL3 SL3		s -							Š	- \$. \$		- S -		. ¢	- s	. \$	- s	. \$. \$	- S		- s					
anto	1 Expense Expense		\$ 176.178							ř	- \$	ų e	7	. \$.	666 \$	7 441 S		28.054 \$ 32	- g 2831 \$ 8	700 \$ 8	779 S	8.862 \$	8948 \$	9.035 \$	9118 \$	9.201 \$	9 285 \$	9370 \$	9.456 \$
Costs		-								•	Ψ.		•	Ψ.		., +	υ,υυυ ψ	20,054 \$ 34	-,οοι φ ο,	,, 00 0	,		0,010 0	υ,υυυ ψ	9,110 \$		0, 2 00 ψ	0,010 \$	ο, 100 φ
gram Costs	1 Expense Expense	-	\$ -							\$				- \$ - :		- \$	- \$	- \$			- \$	- \$	- \$	- \$	- \$	- \$	- \$		- \$
	1 Expense Expense		\$ 19,599							\$				371 \$ 904	938 \$	974 \$						1,232 \$	1,283 \$	1,336 \$	1,390 \$	242 \$	250 \$		
		\$ -	\$ 264,927	\$ 90,163 \$	112,322 \$	- \$	- \$	- \$	- \$	- \$	- \$ 2	2,772 \$ 2	2,162 \$ 4,2	215 \$ 3,449	5,212 \$	13,237 \$	13,447 \$	34,650 \$ 39	9,727 \$ 15,	,662 \$ 16	,348 \$	16,042 \$	16,319 \$	16,524 \$	16,850 \$	9,443 \$	9,536 \$	9,629 \$	9,886 \$
		\$ 411,050	\$ 264,927	\$ 462,152 \$	575,734 \$	- \$	- \$	- \$	52,218 \$ 1	151,457 \$ 1	134,188 \$ 63	33,280 \$ 14	14,280 \$ 4,7	774 \$ 3,449	5,212 \$	13,237 \$	13,447 \$	34,650 \$ 39	9,727 \$ 15,	,662 \$ 16	,348 \$	16,042 \$	16,319 \$	16,524 \$	16,850 \$	9,443 \$	9,536 \$	9,629 \$	9,886 \$
s																													
Profile [d]	Profile [a] Federal Tax State Tax E	ook [c]			_	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7 Year	ar 8 Year 9	Year 10	Year 11	Year 12	Year 13 Ye	ear 14 Yea	ar 15 Ye	ar 16 '	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24
	1 Expense Expense	-							1.000	0.964	0.896	0.833	0.774 0.7	719 0.668	0.621	0.577	0.537	0.499	0.463 0.	.431 0	.400	0.372	0.346	0.321	0.299	0.278	0.241	0.145	0.073
	2 ŠL3 ŠL3								1.051	1.032	0.959 (0.891	0.828 0.7	770 0.715	0.665	0.618	0.574	0.534	0.496 0.	.461 0	.428	0.398	0.370	0.344	0.319	0.296	0.254	0.150	0.073
nts									1.255	1.225			0.983 0.9		0.003	0.731						0.350	0.570	0.377	0.342	0.310	0.260	0.151	0.074
	3 SL 15 SL 15																												
al (COR)	4 Expense Expense	27							1.129	1.083			0.861 0.7		0.684	0.633						0.395	0.365	0.337	0.310	0.286	0.246	0.147	0.073
OR)	5 Expense Expense	20							1.127	1.082	1.003 (0.929 (0.861 0.7	798 0.739	0.684	0.633	0.586	0.542 (0.501 0.	.463 0	.428	0.395	0.365	0.337	0.310	0.286	0.246	0.147	0.073
mp SW)		15							1.141	1.106	1.031 (0.929	0.887 0.8	324 0.765	0.709	0.656	0.608	0.565	0.525 0.	.494 0	456	0.421	0.389	0.359	0.331	0.304	0.259	0.151	0.074
		15							1.150	1.113			0.893 0.8		0.714	0.661						0.426	0.394	0.363	0.333	0.305	0.259	0.151	0.074
Comp HW)		10																											
	8 MACRS 15/20* ADR-SYD 35	20							1.304	1.255	1.163	0.970	0.998 0.9	923 0.854	0.789	0.729	0.672	0.631			.521	0.475	0.432	0.392	0.354	0.318	0.265	0.153	0.074
ules)	9 MACRS 20/10* ADR-SYD 30	20							1.300	1.199	1.092	0.966	0.955 0.8	385 0.819	0.759	0.702	0.649	0.608	0.569 0.	.545 0	.502	0.461	0.421	0.384	0.349	0.315	0.264	0.152	0.074
,	10 MACRS 20/10* ADR-SYD 30	20							1.300	1.199	1.109	0.966	0.955 0.8	385 0.819	0.759	0.702	11.1												
ters)																		0.608	1569 0				0.421	0.384	0.349	0.315	0.264		0.074
	11 WACKS 20/10 ADK-31D 30								1 202		1 112 (.545 0	.502	0.461	0.421	0.384	0.349	0.315	0.264	0.152	0.074
		27							1.302	1.200		0.966	0.955 0.8	885 0.819	0.759	0.702	0.649	0.608	0.569 0.	.545 0 .545 0	.502 .502	0.461 0.461	0.421	0.384	0.349	0.315	0.264	0.152	0.074
	12 111/10/10 20/10 7/2/10/2000	27 27							1.302	1.200 1.200	1.112	0.966 0	0.955 0.8 0.955 0.8	385 0.819 385 0.819	0.759 0.759	0.702 0.702	0.649 0.649	0.608 (0.608 (0.569 0. 0.569 0.	.545 0 .545 0 .545 0	.502 .502 .502	0.461 0.461 0.461	0.421 0.421	0.384 0.384	0.349 0.349	0.315 0.315	0.264 0.264	0.152 0.152	0.074 0.074
rs)	12 MACRS 20/10* ADR-SYD 30 13 MACRS 15/20* ADR-SYD 35								1.302 1.304	1.200 1.200 1.255	1.112	0.966 0	0.955 0.8	385 0.819 385 0.819	0.759	0.702	0.649 0.649	0.608 (0.608 (0.569 0. 0.569 0.	.545 0 .545 0 .545 0	.502 .502 .502	0.461 0.461	0.421	0.384 0.384 0.392	0.349	0.315	0.264	0.152	0.074
rs)	13 MACRS 15/20* ADR-SYD 35								1.302 1.304	1.200 1.200	1.112 (1.131 (0.966 (0.966 (0.970 (0.955 0.8 0.955 0.8	385 0.819 385 0.819 923 0.854	0.759 0.759	0.702 0.702	0.649 0.649 0.672	0.608 (0.608 (0.631 (0.569 0. 0.569 0. 0.591 0.	.545 0 .545 0 .545 0 .545 0	.502 .502 .502 .521	0.461 0.461 0.461	0.421 0.421	0.384 0.384	0.349 0.349	0.315 0.315	0.264 0.264	0.152 0.152	0.074 0.074
eters) ter - Fed)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30	27 20							1.302 1.304 1.300	1.200 1.200 1.255 1.158	1.112 (1.131 (1.065 (0.966 0 0.966 0 0.970 0	0.955 0.8 0.955 0.8 0.998 0.9 0.922 0.8	385 0.819 385 0.819 923 0.854 354 0.791	0.759 0.759 0.789 0.732	0.702 0.702 0.729 0.677	0.649 0.649 0.672 0.626	0.608 0 0.608 0 0.631 0 0.582	0.569 0. 0.569 0. 0.591 0. 0.541 0.	.545 0 .545 0 .545 0 .545 0 .569 0 .509 0	.502 .502 .502 .521 .469	0.461 0.461 0.461 0.475 0.433	0.421 0.421 0.432 0.399	0.384 0.384 0.392 0.367	0.349 0.349 0.354 0.336	0.315 0.315 0.318 0.307	0.264 0.264 0.265 0.260	0.152 0.152 0.153 0.151	0.074 0.074 0.074 0.074
leters) uter - Fed) uter - Fed/State)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6	27 20 20 20							1.302 1.304 1.300 1.300	1.200 1.200 1.255 1.158 1.128	1.112 (1.131 (1.065 (1.037 (0.966 (0.970 (0.966 (0.932 (0.	0.955 0.8 0.955 0.8 0.998 0.9 0.922 0.8 0.898 0.8	385 0.819 385 0.819 323 0.854 354 0.791 332 0.771	0.759 0.759 0.789 0.732 0.714	0.702 0.702 0.729 0.677 0.661	0.649 0.649 0.672 0.626 0.612	0.608 0.608 0.631 0.582 0.570 0	0.569 0. 0.569 0. 0.591 0. 0.541 0.	545 0 545 0 545 0 545 0 569 0 509 0 499 0	502 502 502 502 521 469 461	0.461 0.461 0.461 0.475 0.433 0.426	0.421 0.421 0.432 0.399 0.394	0.384 0.384 0.392 0.367 0.363	0.349 0.349 0.354 0.336 0.333	0.315 0.315 0.318 0.307 0.305	0.264 0.264 0.265 0.260 0.259	0.152 0.152 0.153 0.151 0.151	0.074 0.074 0.074 0.074 0.074
Meters) nputer - Fed) nputer - Fed/State) mputer - Fed)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30	27 20 20 20 20 27							1.302 1.304 1.300 1.300 1.302	1.200 1.200 1.255 1.158 1.128 1.159	1.112 (1.131 (1.065 (1.037 (1.074 (0.966 (0.970 (0.966 (0.932 (0.966 (0.966 (0.932 (0.966 (0.	0.955 0.8 0.955 0.8 0.998 0.9 0.922 0.8 0.898 0.8 0.922 0.8	385 0.819 385 0.819 323 0.854 354 0.791 332 0.771 354 0.791	0.759 0.759 0.789 0.732 0.714 0.732	0.702 0.702 0.729 0.677 0.661 0.677	0.649 0.649 0.672 0.626 0.612 0.626	0.608 0 0.608 0 0.631 0 0.582 0 0.570 0 0.582 0	0.569 0. 0.569 0. 0.591 0. 0.541 0. 0.530 0.	.545 0 .545 0 .545 0 .569 0 .509 0 .499 0	502 502 502 502 521 469 461 469	0.461 0.461 0.461 0.475 0.433 0.426 0.433	0.421 0.421 0.432 0.399 0.394 0.399	0.384 0.384 0.392 0.367 0.363 0.367	0.349 0.349 0.354 0.336 0.333 0.336	0.315 0.315 0.318 0.307 0.305 0.307	0.264 0.264 0.265 0.260 0.259 0.260	0.152 0.152 0.153 0.151 0.151 0.151	0.074 0.074 0.074 0.074 0.074 0.074
s Meters) mputer - Fed) mputer - Fed/State) omputer - Fed/State) omputer - Fed/State)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6	27 20 20 20 20 27 27							1.302 1.304 1.300 1.300 1.302 1.302	1.200 1.200 1.255 1.158 1.128 1.159 1.129	1.112 (1.131 (1.065 (1.037 (1.074 (1.046 (1.	0.966 (0.970 (0.966 (0.932 (0.966 (0.932 (0.	0.955 0.8 0.955 0.8 0.998 0.9 0.922 0.8 0.898 0.8 0.922 0.8 0.898 0.8	885 0.819 885 0.819 923 0.854 954 0.791 932 0.771 954 0.791 932 0.771	0.759 0.759 0.789 0.732 0.714 0.732 0.714	0.702 0.702 0.729 0.677 0.661 0.677 0.661	0.649 0.649 0.672 0.626 0.612 0.626 0.612	0.608 (0.608 (0.631 (0.582 (0.570 (0.582 (0.570 (0.	0.569 0. 0.569 0. 0.591 0. 0.541 0. 0.530 0. 0.541 0.	.545 0 .545 0 .545 0 .545 0 .569 0 .509 0 .499 0 .499 0	502 502 502 521 469 461 469 461	0.461 0.461 0.461 0.475 0.433 0.426 0.433 0.426	0.421 0.421 0.432 0.399 0.394 0.399 0.394	0.384 0.384 0.392 0.367 0.363 0.367 0.363	0.349 0.349 0.354 0.336 0.333 0.336 0.333	0.315 0.315 0.318 0.307 0.305 0.307 0.305	0.264 0.264 0.265 0.260 0.259 0.260 0.259	0.152 0.152 0.153 0.151 0.151 0.151 0.151	0.074 0.074 0.074 0.074 0.074 0.074 0.074
Meters) outer - Fed) outer - Fed/State) nputer - Fed) nputer - Fed/State) outer - Fed)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 35	27 20 20 20 27 27 20							1.302 1.304 1.300 1.300 1.302 1.302 1.302	1.200 1.200 1.255 1.158 1.128 1.159 1.129 1.163	1.112 (1.131 (1.065 (1.037 (1.074 (1.046 (1.070 (1.	0.966 (0.970 (0.970 (0.966 (0.932 (0.932 (0.932 (0.970 (0.932 (0.970 (0.	0.955 0.8 0.955 0.8 0.998 0.9 0.922 0.8 0.922 0.8 0.922 0.8 0.922 0.8 0.898 0.8 0.925 0.8	385 0.819 385 0.819 323 0.854 354 0.791 332 0.771 354 0.791 332 0.771 357 0.793	0.759 0.759 0.789 0.732 0.714 0.732 0.714 0.734	0.702 0.702 0.729 0.677 0.661 0.677 0.661 0.679	0.649 0.649 0.672 0.626 0.612 0.626 0.612 0.628	0.608 0.608 0.631 0.582 0.570 0.582 0.570 0.583	0.569 0. 0.569 0. 0.591 0. 0.541 0. 0.530 0. 0.541 0. 0.530 0.	.545 0 .545 0 .545 0 .569 0 .509 0 .499 0 .499 0 .509 0	.502 .502 .502 .521 .469 .461 .469 .461	0.461 0.461 0.461 0.475 0.433 0.426 0.433 0.426 0.433	0.421 0.421 0.432 0.399 0.394 0.399 0.394 0.399	0.384 0.384 0.392 0.367 0.363 0.367 0.363 0.367	0.349 0.349 0.354 0.336 0.333 0.336 0.333	0.315 0.315 0.318 0.307 0.305 0.307 0.305 0.307	0.264 0.264 0.265 0.260 0.259 0.260 0.259 0.260	0.152 0.152 0.153 0.151 0.151 0.151 0.151 0.151	0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074
rs) - Fed) - Fed/State) er - Fed/State) er - Fed/State) - Fed/State)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 35	27 20 20 20 20 27 27							1.302 1.304 1.300 1.300 1.302 1.302	1.200 1.200 1.255 1.158 1.128 1.159 1.129	1.112 (1.131 (1.065 (1.037 (1.074 (1.046 (1.070 (1.	0.966 (0.970 (0.970 (0.966 (0.932 (0.932 (0.932 (0.970 (0.932 (0.970 (0.	0.955 0.8 0.955 0.8 0.998 0.9 0.922 0.8 0.898 0.8 0.922 0.8 0.898 0.8	385 0.819 385 0.819 323 0.854 354 0.791 332 0.771 354 0.791 332 0.771 357 0.793	0.759 0.759 0.789 0.732 0.714 0.732 0.714	0.702 0.702 0.729 0.677 0.661 0.677 0.661	0.649 0.649 0.672 0.626 0.612 0.626 0.612 0.628	0.608 0.608 0.631 0.582 0.570 0.582 0.570 0.583	0.569 0. 0.569 0. 0.591 0. 0.541 0. 0.530 0. 0.541 0. 0.530 0.	.545 0 .545 0 .545 0 .569 0 .509 0 .499 0 .499 0 .509 0	.502 .502 .502 .521 .469 .461 .469 .461	0.461 0.461 0.461 0.475 0.433 0.426 0.433 0.426	0.421 0.421 0.432 0.399 0.394 0.399 0.394	0.384 0.384 0.392 0.367 0.363 0.367 0.363	0.349 0.349 0.354 0.336 0.333 0.336 0.333	0.315 0.315 0.318 0.307 0.305 0.307 0.305	0.264 0.264 0.265 0.260 0.259 0.260 0.259	0.152 0.152 0.153 0.151 0.151 0.151 0.151	0.074 0.074 0.074 0.074 0.074 0.074 0.074
Meters) outer - Fed) outer - Fed/State) nputer - Fed) nputer - Fed/State) outer - Fed)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 35	27 20 20 20 27 27 27 20 20	2011-2030	PVRR (2005)	PVRR (2008)	2005	2006	2007	1.302 1.304 1.300 1.300 1.302 1.302 1.302 1.304 1.304	1.200 1.200 1.255 1.158 1.128 1.159 1.129 1.163 1.128	1.112 (1.131 (1.131 (1.065 (1.074 (1.074 (1.070 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.	0.966 (0.966 (0.970 (0.966 (0.932 (0.	0.955 0.8 0.955 0.8 0.995 0.998 0.9 0.922 0.8 0.898 0.8 0.922 0.8 0.898 0.8 0.925 0.8 0.898 0.8 0.898 0.8	385 0.819 385 0.819 223 0.854 354 0.791 332 0.771 354 0.791 332 0.771 357 0.793 332 0.771	0.759 0.759 0.789 0.732 0.714 0.732 0.714 0.734 0.714	0.702 0.702 0.702 0.729 0.677 0.661 0.677 0.661 0.679 0.661	0.649 0.649 0.672 0.626 0.612 0.626 0.612 0.628 0.612	0.608 (0.	0.569 0. 0.569 0. 0.591 0. 0.541 0. 0.530 0. 0.541 0. 0.530 0. 0.542 0. 0.530 0. 0.530 0. 0.542 0. 0.530 0.	545 0 545 0 545 0 569 0 509 0 499 0 509 0 499 0 499 0 509 0	502 502 502 5521 469 461 469 461 470 461	0.461 0.461 0.461 0.475 0.433 0.426 0.433 0.426 0.433 0.426	0.421 0.421 0.432 0.399 0.394 0.399 0.394 0.399 0.394	0.384 0.384 0.392 0.367 0.363 0.367 0.363 0.367 0.363	0.349 0.349 0.354 0.336 0.333 0.336 0.333	0.315 0.315 0.318 0.307 0.305 0.307 0.305 0.307	0.264 0.264 0.265 0.260 0.259 0.260 0.259 0.260	0.152 0.152 0.153 0.151 0.151 0.151 0.151 0.151 0.151	0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074
nart Electric Meters) as Meters) smputer - Fed; multiputer - Fed/State) Computer - Fed/State) Computer - Fed/State) multiputer - Fed/State) multiputer - Fed/State) multiputer - Fed/State)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 30/6 19 MACRS 15/5* ADR-SYD 35/6	27 20 20 20 27 27 27 20 20	2011-2030 \$	\$ (48,142) \$	(59,974)	2005 - \$	- \$	2007	1.302 1.304 1.300 1.300 1.302 1.302 1.304 1.304 2008	1.200 1.200 1.255 1.158 1.158 1.159 1.129 1.163 1.128 2009	1.112 (1.131 (1.131 (1.065 (1.037 (1.074 (1.074 (1.074 (1.076 (1.	0.966 (0.966 (0.970 (0.	0.955 0.8 0.955 0.8 0.995 0.98 0.992 0.8 0.898 0.8 0.898 0.8 0.922 0.8 0.898 0.8 0.922 0.8 0.922 0.8 0.922 0.8 0.925 0.8 0.898 0.8	385 0.819 385 0.819 223 0.854 354 0.791 332 0.771 354 0.791 332 0.771 357 0.793 332 0.771 357 0.793 367 0.791	0.759 0.759 0.789 0.789 0.732 0.714 0.732 0.714 0.734 0.714	0.702 0.702 0.702 0.729 0.677 0.661 0.677 0.661 0.679	0.649 0.649 0.672 0.626 0.612 0.626 0.612 0.628 0.612	0.608 (0.608 (0.631 (0.582 (0.570 (0.583 (0.570 (0.583 (0.570 (0.583 (0.570 (0.583 (0.570 (0.583 (0.570 (0.583 (0.570 (0.583 (0.570 (0.583 (0.570 (0.583 (0.570 (0.583 (0.570 (0.583 (0.570 (0.583 (0.570 (0.583 (0.570 (0.583 (0.	0.569 0. 1.569 0. 1.569 0. 1.591 0. 1.530 0. 1.541 0. 1.530 0. 1.541 0. 1.530 0. 1.542 0. 1.530 0. 1.542 0. 1.530 0. 1.542 0. 1.530 0.	545 0 545 0 545 0 569 0 509 0 499 0 509 0 499 0 499 0 509 0	.502 .502 .502 .521 .469 .461 .469 .461	0.461 0.461 0.461 0.475 0.433 0.426 0.433 0.426 0.433 0.426 2022	0.421 0.421 0.432 0.399 0.394 0.399 0.394 0.399 0.394	0.384 0.384 0.392 0.367 0.363 0.367 0.363 0.367 0.363	0.349 0.349 0.354 0.336 0.333 0.336 0.333 0.336 0.333	0.315 0.315 0.318 0.307 0.305 0.307 0.305 0.307 0.305	0.264 0.264 0.265 0.260 0.259 0.260 0.259 0.260 0.259	0.152 0.152 0.153 0.151 0.151 0.151 0.151 0.151 0.151	0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074
Meters) suiter - Fed) suiter - Fed) suiter - Fed/State) nputer - Fed/State) nputer - Fed/State) suiter - Fed/State)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 30/6 19 MACRS 15/5* ADR-SYD 35/6	27 20 20 20 27 27 27 20 20	2011-2030 \$ -	\$ (48,142) \$ PVRR (2005)		- \$ 2005	- \$ 2006	- \$ 2007	1.302 1.304 1.300 1.300 1.302 1.302 1.304 1.304 2008	1.200 1.200 1.200 1.255 1.158 1.128 1.159 1.129 1.163 1.128 2009 - \$	1.112 (1.131 (1.065 (1.065 (1.037 (1.074 (1.070 (1.070 (1.038 (1.	0.966 (0.966 (0.966 (0.976 (0.976 (0.976 (0.976 (0.932 (0.966 (0.932 (0.	0.955 0.8 0.955 0.8 0.998 0.9 0.922 0.8 0.898 0.8 0.922 0.8 0.898 0.8 0.898 0.8 0.895 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8	885 0.819 885 0.819 823 0.854 554 0.791 832 0.771 857 0.793 332 0.771 913 2014 - \$	0.759 0.759 0.789 0.789 0.732 0.714 0.732 0.714 0.734 0.714	0.702 0.702 0.702 0.729 0.677 0.661 0.677 0.661 0.679 0.661	0.649 0.649 0.672 0.626 0.612 0.626 0.612 0.628 0.612 2017	0.608 (0.	0.569 0. 1.569 0. 1.591 0. 1.591 0. 1.541 0. 1.530 0. 1.541 0. 1.530 0. 1.542 0. 1.530 0. 1.542 0. 1.530 0. 1.542 0. 1.530 0. 1.542 0. 1.530 0. 1.542 0. 1.530 0. 1.542 0. 1.530 0.	545 0 545 0 555 0 569 0 509 0 499 0 499 0 509 0 499 0 509 0 509 0 509 0 509 0 509 0	502 502 502 5521 469 461 470 461 - \$	0.461 0.461 0.475 0.433 0.426 0.433 0.426 2022	0.421 0.421 0.432 0.399 0.394 0.399 0.394 0.399 0.394 2023	0.384 0.384 0.392 0.367 0.363 0.367 0.363 0.367 0.363	0.349 0.349 0.354 0.336 0.333 0.336 0.333 0.336 0.333	0.315 0.315 0.318 0.307 0.305 0.307 0.305 0.307 0.305 0.307 0.305	0.264 0.264 0.265 0.260 0.259 0.260 0.259 0.260 0.259 0.260 0.259	0.152 0.152 0.153 0.151 0.151 0.151 0.151 0.151 0.151 2028	0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 2029
eters) iter - Fed) iter - Fed/State) outer - Fed/State) outer - Fed/State) iter - Fed/State)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 30/6 19 MACRS 15/5* ADR-SYD 35/6	27 20 20 20 27 27 27 20 20	2011-2030 \$ - [\$ (48,142) \$ PVRR (2005) \$ 420,083	(59,974)		- \$ 2006	2007 - \$ 2007 - \$	1.302 1.304 1.300 1.300 1.302 1.302 1.302 1.304 1.304 2008 - \$ 2008	1.200 1.200 1.200 1.255 1.158 1.128 1.159 1.129 1.163 1.128 2009 - \$	1.112 (1.131 (1.065 (1.065 (1.074 (1.074 (1.070 (1.	0.966	0.955 0.8 0.955 0.8 0.998 0.9 0.992 0.8 0.992 0.8 0.898 0.8 0.922 0.8 0.898 0.8 0.922 0.8 0.898 0.8 0.925 0.8 0.898 0.8 2012 20 2012 2012 1.8	885 0.819 923 0.854 954 0.791 332 0.771 954 0.791 957 0.793 932 0.771 957 0.793 932 0.771 957 0.793 932 0.771 948 2014 958 2014 958 2014	0.759 0.759 0.789 0.732 0.714 0.732 0.714 0.734 0.714 2015 5 - \$	0.702 0.702 0.729 0.677 0.661 0.677 0.661 0.679 0.661 2016 - \$	0.649 0.649 0.672 0.626 0.612 0.626 0.612 0.628 0.612 0.612 2017 - \$ 2017 5.261 \$	0.608 (0.	0.569 0. 0.569 0. 0.591 0. 0.541 0. 0.530 0. 0.530 0. 0.542 0. 0.530 0. 0.542 0. 0.530 0. 0.542 0. 0.530 0. 0.542 0. 0.530 5. 0.530 5. 0. 0.530 5.	545 0 545 0 5545 0 569 0 509 0 499 0 509 0 499 0 509 0 499 0 500 499 0 500 0 500 499 0	502 502 502 552 5521 469 461 469 461 470 461 - \$	0.461 0.461 0.475 0.433 0.426 0.433 0.426 0.433 0.426 0.433 0.426 2022 - \$	0.421 0.421 0.432 0.399 0.394 0.399 0.394 0.399 0.394 2023 - \$ 2023 4,543 \$	0.384 0.384 0.392 0.367 0.363 0.367 0.363 0.367 0.363 2024 - \$	0.349 0.349 0.354 0.336 0.333 0.336 0.333 0.336 0.333 2025 - \$	0.315 0.315 0.318 0.307 0.305 0.307 0.305 0.307 0.305 2026 - \$	0.264 0.264 0.265 0.265 0.260 0.259 0.260 0.259 0.260 0.259 2027	0.152 0.152 0.153 0.151 0.151 0.151 0.151 0.151 0.151 2028 - \$ 2028 1,092 \$	0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 2029 - \$ 2029 551 \$
Meters) puter - Fed) puter - Fed/State) mputer - Fed/State) mputer - Fed/State) puter - Fed/State) puter - Fed/State)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 30/6 19 MACRS 15/5* ADR-SYD 35/6	27 20 20 20 27 27 27 20 20	2011-2030 \$	\$ (48,142) \$ PVRR (2005)	(59,974)	- \$ 2005	- \$ 2006	- \$ 2007	1.302 1.304 1.300 1.300 1.302 1.302 1.304 1.304 2008 - \$ 2008 46,675 \$ 1	1.200 1.200 1.200 1.205 1.158 1.128 1.128 1.159 1.163 1.129 1.163 1.128 2009 - \$ 2009 134,601 \$ \$ 9,836 \$	1.112 (1.131 (1.065 (1.065 (1.074 (1.074 (1.070 (1.070 (1.038 (1.070 (1.038 (1.070 (1.038 (1.	0.966 (0.966 (0.976 (0.976 (0.976 (0.976 (0.976 (0.976 (0.976 (0.932 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.	0.955 0.8 0.995 0.996 0.992 0.8 0.992 0.8 0.992 0.8 0.898 0.8 0.922 0.8 0.898 0.8 0.925 0.8 0.898 0.8 2012 20 2 0.8 2012 20 7.817 \$ 1,1	885 0.819 885 0.819 823 0.854 554 0.791 832 0.771 857 0.793 332 0.771 913 2014 - \$	0.759 0.759 0.789 0.732 0.714 0.732 0.714 0.734 0.714 2015 \$\frac{2}{5}\$\$\frac{2}{5}\$	0.702 0.702 0.702 0.729 0.677 0.661 0.677 0.661 0.679 0.661	0.649 0.649 0.672 0.626 0.612 0.626 0.612 0.628 0.612 2017 - \$ 2017 5,261 \$ 998 \$ \$	0.608	0.569 0. 1.569 0. 1.569 0. 1.591 0. 1.541 0. 1.530 0. 1.541 0. 1.530 0. 1.542 0. 1.530 0. 2019 2 - \$ 2019 2 - \$ 2019 5 - \$ 5 2019 5 - \$ 5 - \$ 5 - \$ 5 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	545 0 545 0 545 0 545 0 545 0 569 0 499 0 509 0 499 0 509 0 499 0 509 0 509 0 509 0 509 0 509 0 509 509 0 509 0 509 509 0 509 509 0 509 509 0 509 509 509 509 0	502 502 502 5521 469 461 469 461 470 461 8021 - \$ 8021 - \$ 602 \$	0.461 0.461 0.475 0.433 0.426 0.433 0.426 2022	0.421 0.421 0.432 0.399 0.394 0.399 0.394 0.399 0.394 2023	0.384 0.384 0.392 0.367 0.363 0.367 0.363 0.367 0.363	0.349 0.349 0.354 0.336 0.333 0.336 0.333 0.336 0.333	0.315 0.315 0.318 0.307 0.305 0.307 0.305 0.307 0.305 0.307 0.305	0.264 0.265 0.265 0.260 0.259 0.260 0.259 0.260 0.259 2027 - \$ 2027 - \$	0.152 0.152 0.153 0.151 0.151 0.151 0.151 0.151 0.151 2028 - \$ 2028 1,092 30 \$	0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 2029 - \$ 2029 551 \$
Is Meters) Imputer - Fed) Imputer - Fed/State) IR by Year (2005 Dollars)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 30/6 19 MACRS 15/5* ADR-SYD 35/6	27 20 20 20 27 27 27 20 20	2011-2030 S - [\$ (48,142) \$ PVRR (2005) \$ 420,083 \$ 42,069	(59,974)	- \$ 2005	- \$ 2006	- \$ 2007	1.302 1.304 1.300 1.300 1.302 1.302 1.304 1.304 2008 - \$ 2008 46,675 \$ 1	1.200 1.200 1.200 1.205 1.158 1.128 1.128 1.159 1.163 1.129 1.163 1.128 2009 - \$ 2009 134,601 \$ \$ 9,836 \$	1.112 (1.131 (1.	0.966 (0.966 (0.976 (0.976 (0.976 (0.976 (0.976 (0.976 (0.976 (0.932 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.	0.955 0.8 0.995 0.996 0.992 0.8 0.992 0.8 0.992 0.8 0.898 0.8 0.922 0.8 0.898 0.8 0.925 0.8 0.898 0.8 2012 20 2 0.8 2012 20 7.817 \$ 1,1	885 0.819 923 0.854 1554 0.791 1554 0.791 1557 0.793 1302 0.771 1567 0.793 1302 0.771 157 0.793 1302 0.771 157 1.793	0.759 0.759 0.789 0.732 0.714 0.732 0.714 0.734 0.714 2015 \$\frac{2}{5}\$\$\frac{2}{5}\$	0.702 0.702 0.729 0.677 0.661 0.677 0.661 0.679 0.661 2016 - \$ 2016 5,165 \$	0.649 0.649 0.672 0.626 0.612 0.626 0.612 0.628 0.612 2017 - \$ 2017 5,261 \$ 998 \$ \$	0.608	0.569 0. 1.569 0. 1.569 0. 1.591 0. 1.541 0. 1.530 0. 1.541 0. 1.530 0. 1.542 0. 1.530 0. 2019 2 - \$ 2019 2 - \$ 2019 5 - \$ 5 2019 5 - \$ 5 - \$ 5 - \$ 5 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	545 0 545 0	502 502 502 5521 469 461 469 461 470 461 8021 - \$ 8021 - \$ 602 \$	0.461 0.461 0.475 0.433 0.426 0.433 0.426 0.433 0.426 2022 - \$ 2022 4.845 \$ 368 \$	0.421 0.421 0.432 0.399 0.394 0.399 0.394 0.399 0.394 2023 - \$ 2023 4,543 \$ 356 \$	0.384 0.384 0.392 0.367 0.363 0.367 0.363 0.367 0.363 2024 - \$	0.349 0.349 0.354 0.336 0.333 0.336 0.333 0.336 0.333 2025 \$\frac{2025}{3874}\$ \$\frac{2025}{417}\$	0.315 0.315 0.318 0.307 0.305 0.307 0.305 0.307 0.305 0.307 0.305 2026 - \$ 2026 2,050 \$ 54 \$	0.264 0.265 0.265 0.260 0.259 0.260 0.259 0.260 0.259 2027 - \$ 2027 - \$	0.152 0.152 0.153 0.151 0.151 0.151 0.151 0.151 0.151 2028 - \$ 2028 1,092 \$ 30 \$	0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 2029 - \$ 2029 551 \$
telers) utter - Fed/State) utter - Fed/State) putter - Fed/State) putter - Fed/State) utter - Fed/State) utter - Fed/State) utter - Fed/State)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 30/6 19 MACRS 15/5* ADR-SYD 35/6	27 20 20 20 27 27 27 20 20	2011-2030 \$ - [\$ (48,142) \$ PVRR (2005) \$ 420,083 \$ 42,069	(59,974)	- \$ 2005	- \$ 2006	- \$ 2007 - \$ - \$ - \$ - \$	1.302 1.304 1.300 1.300 1.300 1.302 1.302 1.304 1.304 2008 - \$ 2008 46,675 \$ 1 6,657 \$ 53,333 \$ 1	1.200 1.200 1.200 1.255 1.158 1.128 1.159 1.129 1.163 1.128 2009 - \$ 2009 134,601 \$ 9,836 \$ 144,437 \$ 1	1.112 (1.131 (1.	0.966	0.955 0.8 0.955 0.8 0.998 0.9 0.992 0.8 0.992 0.8 0.992 0.8 0.922 0.8 0.925 0.8 0.898 0.89 0.201 2012 - \$ - 2012 20 7.817 \$ 1.1 2.710 \$ 2.0 0.527 \$ 3.1	885 0.819 923 0.854 1554 0.791 1554 0.791 1557 0.793 1302 0.771 1567 0.793 1302 0.771 157 0.793 1302 0.771 157 1.793	0.759 0.759 0.759 0.789 0.732 0.714 0.732 0.714 0.734 0.714 2015 5 - \$ 2015 \$ 2,529 \$ 468 \$ 2,997 \$	0.702 0.702 0.729 0.677 0.661 0.677 0.661 0.679 0.661 2016 - \$ 2016 5,165 \$	0.649 0.649 0.672 0.672 0.626 0.612 0.628 0.612 2017 - \$ 2017 5,261 \$ 998 \$ 6,259 \$	0.608	.569 0569 0591 0591 0591 0530 0541 0541 0541 0542 0530 0542 0530 0542 0530 0542 5530 5530 5530 5530 5530 5542 5542 5553 5553 5553 5553 5553 5553 5553 5553 5553 5553 5553 5553 5553 5553 5553 5553 5553 5553 5553 5554 5555 5	545 0 545 0 546 0 547 0 548 0 549 0 499 0 5509 0 499 0 509 0 600 0 509 0 600 0	502 502 502 502 502 502 504 469 461 470 461 - \$ 1021 - \$ 1021 502 5753 \$	0.461 0.461 0.475 0.433 0.426 0.433 0.426 0.433 0.426 2022 - \$ 2022 4.845 \$ 368 \$	0.421 0.421 0.432 0.399 0.394 0.399 0.394 0.399 0.394 2023 - \$ 2023 4,543 \$ 356 \$	0.384 0.384 0.392 0.367 0.363 0.367 0.363 0.367 0.363 2024 - \$	0.349 0.349 0.354 0.336 0.333 0.336 0.333 0.336 0.333 2025 \$\frac{2025}{3874}\$ \$\frac{2025}{417}\$	0.315 0.315 0.315 0.318 0.307 0.305 0.307 0.305 2026 2026 2,050 \$ 2,104 \$	0.264 0.265 0.265 0.265 0.259 0.260 0.259 0.260 0.259 0.259 2027 - \$ 2027 - 1,797 \$ 1,797 \$ 1,1,797 \$ 1,1,845 \$	0.152 0.153 0.153 0.151 0.151 0.151 0.151 0.151 0.151 0.151 0.151 0.152 - \$ 2028 1,092 \$ 1,192 \$ 1,192 \$	0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.075 2029 - \$ 2029 - \$ 551 25 \$
Meters) mputer - Fed) mputer - Fed/State)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 30/6 19 MACRS 15/5* ADR-SYD 35/6	27 20 20 20 27 27 27 20 20	2011-2030 S - [\$ (48,142) \$ PVRR (2005) \$ 420,083 \$ 42,069	(59,974) \$ PVRR (2008) \$ \$ \$ \$ 523,326 \$	- \$ 2005 - \$ - \$ - \$ - \$	- \$ 2006 - \$ - \$ - \$ - \$	- \$ 2007 - \$ - \$ - \$ - \$	1.302 1.304 1.300 1.300 1.300 1.302 1.302 1.304 1.304 2008 - \$ 2008 - \$ 53,333 \$ 1	1.200 1.200 1.205 1.255 1.158 1.128 1.159 1.129 1.163 1.128 2009 - \$ 2009 134,601 \$ 9,836 \$ 144,437 \$ 1 167,681 \$ 1	1.112 (1.131 (1.131 (1.065 (1.065 (1.037 (1.074 (1.	0.966 (0.966 (0.976 (0.976 (0.976 (0.976 (0.976 (0.976 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.976 (0.932 (0.	0.955 0.8 0.995 0.8 0.998 0.992 0.8 0.992 0.8 0.992 0.8 0.992 0.8 0.992 0.8 0.992 0.8 0.992 0.8 0.992 0.8 0.993 0.8 0.995 0.8	885 0.819 885 0.819 9223 0.854 954 0.791 932 0.771 957 0.793 932 0.771 957 0.793 932 0.771 957 0.793 958 2014 958 2014 958 2.159 958 2.159 958 2.259	0.759 0.759 0.789 0.789 0.732 0.714 0.732 0.714 0.734 0.714 2015 5 - \$ 2015 5 468 5 2.997 \$	0.702 0.702 0.729 0.677 0.661 0.677 0.661 0.679 0.661 2016 \$\frac{2016}{5}\$\$ 451 \$\frac{5}{5}\$\$ 451 \$\frac{5}{5}\$\$ 7,680 \$	0.649 0.649 0.649 0.672 0.626 0.612 0.628 0.612 2017 - \$ 2017 - \$ 998 \$ 6,259 \$	0.608	0.569 0. 0.569 0. 0.591 0. 0.591 0. 0.541 0. 0.530 0. 0.541 0. 0.541 0. 0.530 0. 0.542 0. 0.530 0. 0. 0.0019 2 0.0019 2 0.0019 2 0.0019 0. 0.0019	545 0 0 545 0 0 545 0 0 0 0 0 0 0 0 0 0	502 502 502 502 502 502 502 502 502 502	0.461 0.461 0.461 0.475 0.433 0.426 0.433 0.426 0.433 0.426 2022 - \$ 2022 4.845 \$ 368 \$ 5,213 \$	0.421 0.421 0.432 0.399 0.394 0.399 0.394 0.399 0.394 2023 - \$ 2023 4,543 \$ 356 \$ 4,899 \$	0.384 0.384 0.392 0.367 0.363 0.367 0.363 0.367 0.363 2024 - \$ 2024 4.228 \$ 345 \$ 4,572 \$	0.349 0.354 0.356 0.336 0.333 0.336 0.333 0.336 0.333 2025 - \$ 2025 3.874 4.77 \$ 4.290 \$	0.315 0.315 0.318 0.307 0.305 0.307 0.305 0.307 0.305 2026 - \$ 2026 2,050 \$ 54 \$ 2,104 \$	0.264 0.265 0.265 0.265 0.260 0.259 0.260 0.259 0.260 0.259 \$\frac{2}{2}\$\$\frac{2}{2}\$\$\frac{2}{3}\$\frac{2}{3}\$\$\frac{2}{3}\$\$\frac{2}{3}\$\$\frac{2}{3}\$\$\frac{2}{3}\$\frac{2}{3}\$\$\frac{2}{3}\$\$\frac{2}{3}\$\$\frac{2}{3}\$\$\frac{2}{3}\$\frac{2}{3}\$\$\frac{2}{3}\$\$\frac{2}{3}\$\$\frac{2}{3}\$\$\frac{2}{3}\$\frac{2}{3}\$\$\frac{2}{3}\$\$\frac{2}{3}\$\$\frac{2}{3}\$\$\frac{2}{3}\$\	0.152 0.152 0.153 0.151 0.	0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 2029 - \$ 2029 551 \$ 25 \$ 576 \$
Meters) nputer - Fed) nputer - Fed/State) mputer - Fed/State) mputer - Fed/State) mputer - Fed/State) nputer - Fed/State) nputer - Fed/State)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 30/6 19 MACRS 15/5* ADR-SYD 35/6	27 20 20 20 27 27 27 20 20	2011-2030 \$ - [\$ (48,142) \$ PVRR (2005) \$ 420,083 \$ 42,069	(59,974) \$ PVRR (2008) \$ \$ \$ \$ 523,326 \$ 52,408 \$	- \$ 2005 - \$ - \$ - \$	- \$ 2006 - \$ - \$ - \$ - \$ - \$	2007 - \$ - \$ - \$ - \$	1.302 1.304 1.300 1.300 1.300 1.302 1.302 1.302 1.304 1.304 2008 - \$ 2008 - \$ 5.657 \$ 1 6.657 \$ 5 5.5333 \$ 1	1.200 1.200 1.205 1.255 1.158 1.128 1.159 1.129 1.163 1.128 2009 - \$ 2009 134.601 \$ 9.836 \$ 144.437 \$ 1167.681 \$ 112.254 \$	1.112 (1.	0.966	0.955 0.8 0.955 0.8 0.998 0.99 0.992 0.9 0.898 0.8 0.898 0.8 0.898 0.8 0.892 0.8 0.898 0.8 0.892 0.8 0.898 1.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.925 0.8 0.939 0.8 0.925 0.8 0.939	885 0.819 885 0.819 9223 0.854 924 0.854 925 0.771 932 0.771 932 0.771 932 0.771 932 0.771 932 0.771 932 0.771 933 2014 933 2014 933 2015 933 2016 933 2016 93 2014 94 2014 94 2014 95 2014 96 2014 96 2014 96 2014 96 2014 96 2014 96 2014 96 2014 96 2014 97	0.759 0.759 0.759 0.789 0.732 0.714 0.732 0.714 0.734 0.714 2015 5 2,529 5 468 5 2,529 5 5 2,97 5 5 3,150 5 5 3,150 5 5 83 5 583 5	0.702 0.702 0.729 0.677 0.661 0.677 0.661 0.679 0.661 - \$ 2016 - \$ 2016 6,165 451 \$ 6,617 \$	0.649 0.649 0.672 0.672 0.626 0.612 0.628 0.612 2017 - \$ 2017 5.261 \$ 998 \$ 6,259 \$	0.608 (0.	0.569 0. 0.569 0. 0.569 0. 0.591 0. 0.591 0. 0.530 0. 0.541 0. 0.541 0. 0.542 0. 0.542 0. 0.542 0. 0.542 0. 0.542 0. 0.5530 0. 0.542 0. 0.5530 0. 0.542 0. 0.5530 0. 0	545 0 0 545 0 0 545 0 0 0 0 0 0 0 0 0 0	502 502 502 502 502 502 502 502 502 502	0.461 0.461 0.461 0.475 0.462 0.475 0.428 0.428 0.428 0.428 2022 - \$ 2022 4.845 \$ 368 \$ 5,213 \$	0.421 0.421 0.421 0.432 0.399 0.394 0.399 0.394 2023 - \$ 2023 4,543 356 \$ 4,899 \$	0.384 0.384 0.392 0.367 0.363 0.367 0.363 0.363 0.363 2024 - \$ 2024 4.228 \$ 4,572 \$	0.349 0.354 0.354 0.335 0.335 0.333 0.336 0.333 0.336 2025 - \$ 2025 3.874 4,290 \$ 4,825 \$ 519 \$	0.315 0.315 0.316 0.307 0.307 0.305 0.307 0.305 0.307 0.305 2026 - \$ 2026 2,050 \$ 2,104 \$ 2,553 \$ 67 \$	0.264 0.265 0.265 0.259 0.259 0.259 0.259 0.259 0.259 0.259 1.797 \$ 2027 1.797 \$ 1.797 \$ 1.1845 \$	0.152 0.153 0.153 0.151 0.151 0.151 0.151 0.151 0.151 2028 - \$ 2028 1,092 \$ 1,092 \$ 1,122 \$	0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 2029 - \$ 2029 551 \$25 \$ 576 \$
s Meters) mputer - Fed) mputer - Fed()	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 30/6 19 MACRS 15/5* ADR-SYD 35/6	27 20 20 20 27 27 27 20 20	2011-2030 S - [\$ (48,142) \$ PVRR (2005) \$ 420,083 \$ 42,069	(59,974) \$ PVRR (2008) \$ \$ \$ \$ 523,326 \$	- \$ 2005 - \$ - \$ - \$	- \$ 2006 - \$ - \$ - \$ - \$	2007 - \$ - \$ - \$ - \$	1.302 1.304 1.300 1.300 1.300 1.302 1.302 1.302 1.304 1.304 2008 - \$ 2008 - \$ 5.657 \$ 1 6.657 \$ 5 5.5333 \$ 1	1.200 1.200 1.205 1.255 1.158 1.128 1.159 1.129 1.163 1.128 2009 - \$ 2009 134.601 \$ 9.836 \$ 144.437 \$ 1167.681 \$ 112.254 \$	1.112 (1.	0.966	0.955 0.8 0.995 0.8 0.998 0.992 0.8 0.992 0.8 0.992 0.8 0.992 0.8 0.992 0.8 0.992 0.8 0.992 0.8 0.992 0.8 0.993 0.8 0.995 0.8	885 0.819 885 0.819 9223 0.854 924 0.854 925 0.771 932 0.771 932 0.771 932 0.771 932 0.771 932 0.771 932 0.771 933 2014 933 2014 933 2015 933 2016 933 2016 93 2014 94 2014 94 2014 95 2014 96 2014 96 2014 96 2014 96 2014 96 2014 96 2014 96 2014 96 2014 97	0.759 0.759 0.759 0.789 0.732 0.714 0.732 0.714 0.734 0.714 2015 5 2,529 5 468 5 2,529 5 5 2,97 5 5 3,150 5 5 3,150 5 5 83 5 583 5	0.702 0.702 0.729 0.677 0.661 0.677 0.661 0.679 0.661 2016 \$\frac{2016}{5}\$\$ 451 \$\frac{5}{5}\$\$ 451 \$\frac{5}{5}\$\$ 7,680 \$	0.649 0.649 0.672 0.672 0.626 0.612 0.628 0.612 2017 - \$ 2017 5.261 \$ 998 \$ 6,259 \$	0.608	0.569 0. 0.569 0. 0.569 0. 0.591 0. 0.591 0. 0.530 0. 0.541 0. 0.541 0. 0.542 0. 0.542 0. 0.542 0. 0.542 0. 0.542 0. 0.5530 0. 0.542 0. 0.5530 0. 0.542 0. 0.5530 0. 0	545 0 0 545 0 0 545 0 0 0 0 0 0 0 0 0 0	502 502 502 502 502 502 502 502 502 502	0.461 0.461 0.461 0.475 0.462 0.475 0.428 0.428 0.428 0.428 2022 - \$ 2022 4.845 \$ 368 \$ 5,213 \$	0.421 0.421 0.432 0.399 0.394 0.399 0.394 0.399 0.394 2023 - \$ 2023 4,543 \$ 356 \$ 4,899 \$	0.384 0.384 0.392 0.367 0.363 0.367 0.363 0.367 0.363 2024 - \$ 2024 4.228 \$ 345 \$ 4,572 \$	0.349 0.354 0.356 0.336 0.333 0.336 0.333 0.336 0.333 2025 - \$ 2025 3.874 4.77 \$ 4.290 \$	0.315 0.315 0.316 0.307 0.307 0.305 0.307 0.305 0.307 0.305 2026 - \$ 2026 2,050 \$ 2,104 \$ 2,553 \$ 67 \$	0.264 0.265 0.265 0.265 0.259 0.259 0.259 0.259 0.259 0.259 0.259 1 - \$ 2027 1 1,797 \$ 1,797 \$ 1,1845 \$	0.152 0.153 0.153 0.151 0.151 0.151 0.151 0.151 0.151 2028 - \$ 2028 1,092 \$ 1,092 \$ 1,122 \$	0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 2029 - \$ 2029 551 \$25 \$ 576 \$
Meters) nputer - Fed') nputer - Fed') nputer - Fed'State) mputer - Fed'State) mputer - Fed') nputer - Fed') nputer - Fed') nputer - Fed') t by Year (2005 Dollars)	13 MACRS 15/20* ADR-SYD 35 14 MACRS 20/5* ADR-SYD 30 15 MACRS 20/5* ADR-SYD 30/6 16 MACRS 20/5* ADR-SYD 30/6 17 MACRS 20/5* ADR-SYD 30/6 18 MACRS 15/5* ADR-SYD 30/6 19 MACRS 15/5* ADR-SYD 35/6	202 20 20 20 20 20 20 20 20 20 20 20 20	2011-2030	\$ (48,142) \$ PVRR (2005) \$ 420,083 \$ 42,069	(59,974) \$ PVRR (2008) \$ \$ \$ 523,326 \$ 52,408 \$ 575,734 \$	2005 - \$ - \$ - \$ - \$ - \$ - \$	2006 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ 2007 - \$ - \$ - \$ - \$ - \$ - \$	1.302 1.304 1.300 1.300 1.300 1.302 1.302 1.302 1.304 1.304 2008 - \$ 2008 46,657 \$ 53,333 \$ 1 58,147 \$ 1 8,294 \$ 66,440 \$ 1	1200 1200 1201 1205 1.158 1.159 1.128 1.159 1.163 1.129 2009 2009 134,601 \$ 5 2009 144,437 \$ 1 167,881 \$ 1 12,254 \$ 1 179,935 \$ 1	1.112 (1.	0.986 (0.970 (0.	0.955 0.8 0.956 0.8 0.998 0.998 0.998 0.9 0.922 0.9 0.898 0.8 0.898 0.8 0.898 0.8 0.898 0.8 0.898 1.8 0.808 1.8 0.80	885 0.819 885 0.819 9223 0.854 924 0.854 925 0.771 932 0.771 932 0.771 932 0.771 932 0.771 932 0.771 932 0.771 933 2014 933 2014 933 2015 933 2016 933 2016 93 2014 94 2014 94 2014 95 2014 96 2014 96 2014 96 2014 96 2014 96 2014 96 2014 96 2014 96 2014 97	0.759 0.759 0.759 0.789 0.732 0.714 0.732 0.714 0.734 0.714 2015 5 2,529 \$ 468 \$ 2,529 \$ 468 \$ 3,150 \$ 83,150 \$ 83,3733 \$	0.702 0.702 0.729 0.677 0.661 0.677 0.661 0.679 0.661 - \$ 2016 - \$ 2016 6,165 451 \$ 6,617 \$	0.649 0.649 0.672 0.672 0.626 0.612 0.628 0.612 2017 - \$ 2017 5.261 \$ 998 \$ 6,259 \$	0.608 (0.	0.569 0.05,569 0.05,569 0.05,569 0.05,541 0.05,541 0.05,541 0.05,541 0.05,541 0.05,542 0.05,530 0.05,542 0.05,530 0.05,542 0.05,530 0.05,542 0.05,530 0.05,542 0.05,550 \$ 5,550 \$ 5,507 \$ 5,507 \$ 7,0022 \$ 7,0022 \$ 7,0022 \$ 7,005,569 \$ 5,505,507 \$ 5,507 \$ 5,507 \$ 7,0022 \$ 7,0	545 0 0 545 0 0 545 0 0 0 545 0 0 0 0 0	502 502 502 502 502 502 502 502 502 502	0.461 0.461 0.461 0.475 0.462 0.475 0.428 0.428 0.428 0.428 2022 - \$ 2022 4.845 \$ 368 \$ 5,213 \$	0.421 0.421 0.421 0.432 0.399 0.394 0.399 0.394 2023 - \$ 2023 4,543 356 \$ 4,899 \$	0.384 0.384 0.392 0.367 0.363 0.367 0.363 0.363 0.363 2024 - \$ 2024 4.228 \$ 4,572 \$	0.349 0.354 0.354 0.335 0.335 0.333 0.336 0.333 0.336 2025 - \$ 2025 3.874 4,290 \$ 4,825 \$ 519 \$	0.315 0.318 0.307 0.305 0.307 0.305 0.307 0.305 - \$ 2026 - \$ 2,050 \$ 2,104 \$ 2,553 \$ 67 \$ 2,621 \$	0.264 0.285 0.280 0.289 0.269 0.269 0.269 0.259 0.260 0.259 0.260 1.797 \$ 2027 - \$ 2027 1.797 \$ 4.8 \$ 1.845 \$ 1.845 \$ 2.239 \$ 6.0 \$ 2.299 \$	0.152 0.152 0.152 0.153 0.151	0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 0.074 2029 - \$ 2029 551 \$25 \$ 576 \$

Notes

a PVRR profiles are defined based on the nature of the cost category and federal and state tax depreciation schedules. Further elaborated in Workpaper 7.
b This PVRR table is a reference profile from workpapers of D.06-07-027 and D.09-03-26.
c Book refers to the original terms of depreciation.
d Numbers after CMP (Computing), EDP (Electric Data Processing), and GDP (Gas Data Processing) refer to different asset classes defined by PG&E.

Line PVRR (2005) 94,560 719,177 \$ 6,448 \$ D:06-07-027 Original AMI Project Project Costs

Electric Meters

Electric Communication Devices 2009 23,404 \$ 173,323 \$ 1,833 \$ 120,526 \$ (77) \$ 18,646 \$ 84,238 647,140 5,803 401,244 1,268 54,996 16,529 20,521 88,225 4,719 38,409 464 25,984 98,594 \$ 830 \$ 58,379 \$ 210 \$ 172,270 \$ 1,440 \$ 95,822 \$ 332 \$ 145,767 \$ 1,257 \$ 89,917 \$ 895.926 130 \$ MACRS 20 ADR-SYD 30 ADR-SYD 35 Electric Communication Devices Gas Meters Gas Communication Devices Site Costs - Building Attachments Computer Hardware Software - Capitalized (Book) Software - Expensed (Book) MACRS 20 8,033 554,415 (19) \$ 10,616 \$ 6,448 445,039 1,286 55,504 18,667 21,248 86,668 MACRS 20 ADR-SYD 35 1,602 69,146 23,255 26,470 107,969 302,912 SL 15 MACRS 5 SL 3 SL 3 SL 15 ADR-SYD 6 14 \$ 37,506 \$ 410 \$ 16,198 \$ 302 1,292 \$
4,255 \$
4,002 \$
5,601 \$
3,873 \$ 12,274 \$ 16,519 \$ 46,857 \$ 69,685 \$ SL 3 SL 3 8,136 \$ 38,917 \$ 11,658 \$ 8,208 \$ 53,641 \$ 18,275 \$ 8,282 \$ 61,267 \$ 24,204 \$ 8,358 \$ 56,783 \$ 16,174 \$ Labor - Capitalized (Book)
Expenses
Risk-Based Allowance - Capital 2,784 6,461 2,965 Expense Expense 290.628 243.153 105.399 113,719 32.123 \$ Risk-Based Allowance - Expense Subtotal GRC Costs
Electric Meters
Electric Communication Devices
Gas Meters
Gas Communication Devices PVRR (2008) 6,167 53,000 VRR (2005) 2018 603 \$ 4,822 \$ 764 \$ 4,869 \$ 467 \$ 4,660 \$ 1,386 \$ 5,545 \$ 540 S 4,600 S 368 \$ 4,879 \$ 639 \$ 4,585 \$ 672 \$ 4,622 \$ 923 \$ 4,820 \$ 1,140 \$ 5,050 \$ 1,638 5,667 310 \$ 6,168 \$ 363 5,160 400 \$ 4,956 \$ 375 \$ 4,864 \$ 42 544 MACRS 20 ADR-SYD 30 ADR-SYD 35 75.266 MACRS 20 MACRS 20 - \$ 6,496 \$ 14 \$ 9,947 \$ - \$ 4,630 \$ 10 \$ - \$ 4,239 \$ 10 \$ 2,304 \$ - \$ 5,570 \$ 4,923 - \$ 4,604 \$ - \$ 4,568 \$ - \$ 4,278 \$ - \$ 4,264 \$ - \$ 4,456 \$ - \$ 4,860 \$ 6,433 \$ 5,819 \$ 5,499 \$ 5,514 76 154 44 518 55,459 ADR-SYD 35 SL 15 MACRS 5 SL 3 SL 3 Site Costs - Building Attachments SL 15 ADR-SYD 6 262 24,930 209 16,579 12 3,752 168 534 Computer Hardware Software - Capitalized (Book) Software - Expensed (Book) 6,109 SL 3 SL 3 Labor - Capitalized (Book)
Expenses
Risk-Based Allowance - Capital Expense Expense Blend of ab 983.946 \$ 326.085 406.226 38.761 \$ 40.165 \$ 41.045 \$ 41.991 \$ 43.083 \$ 44.467 \$ 45.948 \$ 47.432 \$ 48.790 \$ 50.181 \$ 52.060 \$ 56.895 \$ 62.958 \$ 70.159 \$ 78.412 \$ 42.596 \$ 43.431 \$ Expense 1.171.146 \$ 537,640 50.907 \$ 55.728 \$ 61.225 \$ 58.592 \$ 73.616 \$ 83.375 \$ 91.244 \$ 42.596 \$ 44,300 \$ 431.573 2,813,322 1,171,146 \$ 2,258,305 \$ \$ 1,739,368 PVRR Factors by Cost Profile [b] Year 25
0.010
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0.010 Year 0
1.000
1.098
1.051
1.149
1.094
1.141
1.163
1.162
1.255
1.335
1.388
1.403
1.411
1.392
1.407
1.415 Year 1
0.964
1.055
1.032
1.123
1.071
1.115
1.136
1.225
1.298
1.348
1.362
1.368
1.352
1.368
1.352
1.366
1.371 Year 20 0.240 0.248 0.256 0.264 0.266 0.266 0.270 0.271 0.278 0.279 0.280 0.280 0.279 0.280 0.280 0.280 Year 24

0.050
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0.050 0.278 0.291 0.297 0.311 0.308 0.314 0.322 0.328 0.339 0.342 0.342 0.342 0.342 0.342 0.499 0.543 0.534 0.578 0.554 0.577 0.585 0.587 0.632 0.667 0.686 0.686 0.687 0.687 0.463 0.503 0.496 0.536 0.515 0.536 0.541 0.546 0.617 0.633 0.633 0.633 0.634 0.634 0.372 0.399 0.398 0.425 0.413 0.429 0.430 0.438 0.463 0.492 0.493 0.493 0.493 0.346 0.369 0.370 0.393 0.384 0.397 0.496 0.407 0.426 0.444 0.451 0.452 0.452 0.452 0.321 0.341 0.344 0.364 0.357 0.368 0.378 0.392 0.407 0.413 0.413 0.413 0.981 0.959 1.043 0.995 1.036 1.055 1.056 1.138 1.207 1.253 1.266 1.269 1.256 1.269 0.911 0.891 0.970 0.925 0.963 0.980 0.981 1.058 1.121 1.164 1.176 1.178 1.167 1.179 0.787 0.770 0.837 0.799 0.832 0.847 0.914 0.968 1.005 1.013 1.013 1.007 1.015 0.731 0.715 0.778 0.743 0.773 0.787 0.787 0.849 0.900 0.933 0.938 0.938 0.935 0.940 0.941 0.680 0.665 0.723 0.690 0.718 0.731 0.732 0.789 0.836 0.865 0.869 0.867 0.871 0.586 0.574 0.624 0.596 0.620 0.632 0.681 0.720 0.743 0.743 0.744 0.744 0.466 0.461 0.496 0.478 0.502 0.507 0.543 0.573 0.583 0.583 0.583 0.584 0.584 0.431 0.428 0.459 0.445 0.463 0.464 0.472 0.502 0.525 0.536 0.537 0.537 0.537 0.315 0.320 0.336 0.332 0.340 0.350 0.359 0.372 0.376 0.376 0.269 0.276 0.287 0.286 0.289 0.290 0.296 0.299 0.308 0.310 0.310 0.310 0.310 0.227 0.235 0.241 0.240 0.241 0.243 0.242 0.248 0.249 0.249 0.249 0.249 0.249 0.249 0.177 0.182 0.186 0.184 0.185 0.185 0.185 0.187 0.187 0.188 0.188 0.188 0.112 0.113 0.114 0.113 0.114 0.113 0.114 0.114 0.114 0.114 0.114 0.114 SL 3 MACRS 5 MACRS 5 MACRS 5 MACRS 7 SL 15 MACRS 10 MACRS 20 ADR-SYD 6 ADR-SYD 6 ADR-SYD 6 ADR-SYD 12 SL 15 ADR-SYD 24 ADR-SYD 24 ADR-SYD 30 ADR-SYD 30 ADR-SYD 30 ADR-SYD 35 ADR-SYD 35 ADR-SYD 35 253,438 70,717 \$ 4,163 \$ D:09-03-026 SmartMeter Upgrade D:99-33-026 SmartMeter Upgrade Project Cost: Electric Meters Electric Communication Devices Computer Hardware Software - Capitalized (Book) Labor - Capitalized (Book) Labor - Capitalized (Book) Expenses - T-24 PCT Program Cost Expenses Federal Ta MACRS 20 MACRS 20 MACRS 5 SL 3 SL 3 2011 37,118 \$ 15,293 ADR-SYD 30 ADR-SYD 6 SL 3 SL 3 943 \$ 491 \$ 28.856 24.277 30.243 2.462 \$ 24.161 \$ 5,503 \$ 998 \$ 55.617 2,282 6,183 \$ 11,799 \$ Risk-Based Allowance - Expense GRC / Program Costs
Electric Meters
Electric Communication Devices
Computer Hardware
Software - Capitalized (Book)
Software - Expensed (Book)
Labor - Capitalized (Book)
Labor - Capitalized (Book)
Expenses - PTR Program Costs
Expenses - T-24 PCT Program Costs
Expenses - Other
Risk-Based Allowance - Capital
Risk-Based Allowance - Expenses
Subtotal MACRS 20
MACRS 20
MACRS 20
MACRS 20
MACRS 5
SL 3
SL 3
Expense
Expense
Expense
Expense
Expense
Expense
Expense 78,952 13,072 4,409 R (2005) 42,079 7,490 2,376 State Tax ADR-SYD 30 ADR-SYD 30 ADR-SYD 6 1,235 \$ 7,708 \$ 22,149 \$ 21,010 \$ 67,226 \$ 2,000 \$ 12,831 \$ 50,618 \$ 69,011 \$ 1,539 9,602 27,592 26,174 83,747 2,000 8 4,726 8 1,793 8 1,338 8 9,646 8 8,105 \$ 1,793 \$ 2,631 \$ 10,263 \$ 1,793 3,608 7,686 1,793 \$ 3,331 \$ 13,062 \$ 1,793 4,059 16,886 1,793 \$ 4,555 \$ 14,718 \$ 1,793 \$ 4,780 \$ 15,893 \$ 1,793 4,994 6,708 1,793 5,196 7,724 1,793 \$ 5,053 \$ 8,595 \$ 1,793 \$ 3,536 \$ 9,631 \$ 1,793 3,582 11,551 1,793 3,637 7,940 1,793 \$ 3,650 \$ 8,202 \$ 1,793 3,619 8,473 1,793 3,568 8,752 \$ 3,394 \$ 7,474 \$ 7,474 427 704 \$ 171 273 \$ 213 366 13.088 \$ 427 704 \$ \$ 466,760 \$ PVRR Factors by Cost Profile [b] 0.833 0.911 0.891 0.970 0.925 0.963 0.980 0.981 1.058 1.058 1.170 1.170 1.170 1.173 Year 6
0.668
0.730
0.715
0.777
0.743
0.773
0.786
0.787
0.849
0.865
0.927
0.927
0.928
0.929 Vear 7
0.621
0.677
0.665
0.721
0.690
0.718
0.729
0.732
0.788
0.801
0.857
0.857
0.858
0.858 Year 11 0.463 0.497 0.496 0.530 0.515 0.535 0.536 0.546 0.579 0.583 0.616 0.616 0.617 0.617 Year 12 0.431 0.460 0.461 0.495 0.495 0.507 0.534 0.536 0.565 0.565 0.565 0.566 0.566 Year 15 0.346 0.363 0.370 0.387 0.384 0.391 0.403 0.413 0.413 0.430 0.430 0.430 0.430 0.430 7ear 17 0.299 0.309 0.319 0.330 0.332 0.332 0.342 0.342 0.345 0.352 0.352 0.352 0.352 Year 20 0.144 0.145 0.148 0.150 0.150 0.150 0.150 0.150 0.155 0.155 0.151 0.151 0.151 0.151 (ear 16 0.321 0.335 0.344 0.357 0.356 0.361 0.370 0.377 0.377 0.390 0.390 0.390 0.390 0.390 0.847 0.828 0.901 0.860 0.895 0.911 0.912 0.983 1.006 1.079 1.084 1.084 1.081 1.086 0.627 0.618 0.668 0.641 0.668 0.675 0.680 0.731 0.741 0.791 0.791 0.792 0.792 0.981 0.959 1.043 0.995 1.036 1.055 1.056 1.138 1.167 1.252 1.262 1.262 1.265 1.265 0.581 0.574 0.618 0.596 0.620 0.625 0.632 0.678 0.685 0.729 0.729 0.730 0.730 Original AMI Project + SMU Combined
Project Costs
GRC / Program Costs
Total
 2005
 2006
 2007
 2008
 2009
 2010

 \$ 19,153
 \$ 258,619
 \$ 231,931
 \$ 392,031
 \$ 568,629
 \$ 411,854

 \$ 19,153
 \$ 258,619
 \$ 231,931
 \$ 932,031
 \$ 568,629
 \$ 411,854

 \$ 19,153
 \$ 258,619
 \$ 231,931
 \$ 392,031
 \$ 568,629
 \$ 415,248
 2011 146,958 \$ 65,532 \$ 212,490 \$ 2012 176,954 \$ 75,453 \$ 252,407 \$ Profile [a] Federal Tax State Tax Book [c] 2013 2014 2016 2017 2018 2020 2021 2022 2025 2029 2030 2010-2030 PVRR (2005) - \$ 2,256,707 2015 2019 2023 2024 2026 2027 2028 57,670 \$ 57.670 \$ Calculated PVRR by Year (2005 Dollars) D:06-07-027 Original AMI Project 285,584 \$ 270,655 \$ 415,853 \$ 439,503 \$ 319,896 \$ 111,773 \$ 42,239 \$... \$... \$ 14,585 \$ 140,380 \$ 76,004 \$ 68,469 \$ 153,226 \$... \$ 255,584 \$ 270,655 \$ 430,438 \$ 75,982 \$ 395,899 \$ 102,42 \$ 195,465 \$... \$.. 33,085 \$ 16,331 \$ 49,416 \$ 26,977 \$ 14,995 \$ 41,971 \$ 22,977 \$ 11,784 \$ 34,761 \$ 22,380 \$ 5,975 \$ 28,355 \$ 7,716 \$ 2,578 \$ 10,294 \$ 30,755 \$ 16,554 \$ 47,309 \$ 32,326 \$ 13,319 \$ 45,645 \$ 25,492 \$ 14,018 \$ 39,510 \$ 26,039 \$ 12,205 \$ 38,244 \$ 21,674 \$ 7,775 \$ 29,449 \$ 21,627 \$ 7,761 \$ 29,388 \$ 20,759 \$ 7,152 \$ 27,910 \$ 21,118 \$ 6,440 \$ 27,558 \$ 22,156 \$ 6,294 \$ 28,450 \$ 9,418 \$ 2,916 \$ 12,334 \$ 4,883 \$ 1,578 \$ 6,461 \$ \$ 601,248 \$ 2,859,553 2.813.322 \$ 25,799 \$ 355,772 \$ 337,174 \$ 518.05 \$ 547,518 \$ 398,515 \$ 139,243 \$ 52,620 \$ 41,216 \$ 38,314 \$ 40,270 \$ 33,607 \$ 31,757 \$ 32,438 \$ 28,624 \$ 27,001 \$ 26,942 \$ 25,860 \$ 26,308 \$ 27,801 \$ 74,8 11,733 \$ 9,612 \$ 3,632 \$ 3,212 \$ 15,365 \$ 12,824 \$ D:06-07-027 Original AMI Project D:09-03-026 SmartMeter Upgrade Total \$ 749,015 \$ 3,562,337

Pacific Gas and Electric Company Exhibit (PG&E-45) - Late-Filed SmartMetel™ Upgrade Cost Effectiveness Filing WORKPAPER 3 - Updated Cost Tables in Support of Table 3 / Workpaper 2

Line 105 Calculated PVRR by Year - PTR Program Costs (2008 Dollars) 27.592 \$ - \$ - \$ - \$ - \$ - \$ 3.041 \$ 6.223 \$ 5.784 \$ 1.290 \$ 1.199 \$ 1.114 \$ 1.035 \$ 962 \$ 894 \$ 831 \$ 772 \$ 718 \$ 667 \$ 620 \$ 576 \$ 535 \$ 498 \$ 431 \$ 258 \$ Original AMI Project + SMU Combined
Actual Project Costs
Electric Meters
Electric Meters - COR
Smart Electric Meters
Gas Meters
Gas Meters - COR
CIS Mainframe Comp SW
CIS Mainframe Comp HW
 Federal Tax
 State Tax
 Book [c]

 MACRS 20
 ADR-SYD 30
 27
 PVRR (2008) 132,616 2008 2009 (3,013) \$ 28,367 \$ 11,624 \$
2,230 \$
17,906 \$
8,058 \$
143 \$
4,469 \$
162 \$
4,971 \$ 240 \$ - \$ 4,318 \$ 4,514 \$ 89,939 \$ 13,374 \$ 207 \$ 30,809 \$ Expense MACRS 20 Expense ADR-SYD 30 18.806 14,938 782,864 18,610 975,266 617 \$ 1,084 \$ 48,239 \$ 4,600 \$ 309,439 \$ 5,736 \$ 283,665 \$ 749.874 - \$ 16,108 \$ 419 \$ 150,642 \$ 119,856 1,734 296,368 149,313 2,160 369,206 23,050 \$ 208 \$ 43,634 \$ 26,493 \$ 222 \$ 32,418 \$ 16,968 \$ 735 \$ 21,887 \$ MACRS 20 ADR-SYD 35 108.857 Expense SL 3 Expense SL 3 2,049 303,708 107 \$ 19,557 \$ 58,175 \$
33,423 \$
19,469 \$
16,737 \$
311,514 \$ CIS Mainframe Comp HV MACRS 5 ADR-SYD 6 89.192 83,226 103,680 1,793 \$ 2,573 \$ 1,396 \$ 104,576 \$ 3,991 \$ 98,366 \$ 17.589 \$ 6,074 \$ 20,962 \$ MACRS 20 ADR-SYD 35 352,411 386.196 481,110 87.257 \$ 12,706 \$ 125,757 \$ 1,930,099 3,625 \$ 12,113 \$ 234,912 \$ (12,461) \$ 31,684 \$ 523,119 \$ (477) \$ 32,860 \$ 495,616 \$ (4,998) \$ 21,747 \$ 198,832 \$ MACRS 20 ADR-SYD 30 7 148 15 829 2,003 \$ ADR-SYD 30
 119
 Expense - Other

 120
 Expense - Customer Acquisition

 121
 Subtotal - Capital
 383 986 301.704 \$ Expense Expense 375 852 \$ 53,193 437,180 \$ 36,884 \$ 338,588 \$ 45,949 421,801 122 Subtotal 2,288,702 \$ 2,268,686 \$ 2,826,255 \$ 71,814 \$ 350,627 \$ 297,138 \$ 627,107 \$ 609,845 \$ 252,997 \$ 123 124 125 126 127 128 129 130 131 132 133 134 Projected GRC Costs
Smart Electric Meters
 Federal Tax
 State Tax
 Book [c]

 MACRS 20
 ADR-SYD 30
 27
 2011-2030 89,539 \$ PVRR (2008) 58,398 Smart Electric Meters
Networks
Gas Modules
Site Costs - Building Attachments
CIS Mainframe Comp HW
CIS Mainframe Comp SW
Software - Expensed (Book)
Expenses - TPR Program Costs
Expenses - T-24 PCT Program Costs
Expenses - T-24 PCT Program Costs 5,767 \$
6,433 \$
14 \$
2,192 \$
4,726 \$
2,000 \$ 5,825 \$ 5,499 \$ 12 \$ 88,338 \$ 76,154 \$ 262 \$ 29,339 \$ 62,279 55,459 209 19,391 10,251 1,539 7,171 \$ 5,570 \$ 98 \$ 6,061 \$ 6,496 \$ 14 \$ 9,947 \$ 5,742 \$ 5,819 \$ 14 \$ 5,523 \$ 4,923 \$ 12 \$ 5,461 \$ 4,630 \$ 10 \$ 1,144 \$ 5,679 \$ 4,604 \$ 12 \$ 3,752 \$ 5,437 \$ 4,568 \$ 10 \$ 5,476 \$ 4,278 \$ 12 \$ 5,721 \$ 4,239 \$ 10 \$ 2,901 \$ 5,898 \$ 4,456 \$ 12 \$ 6,398 \$ 4,860 \$ 10 \$ 1,415 \$ MACRS 20 ADR-SYD 30 MACRS 20 ADR-SYD 35 49,993 \$ 44,518 \$ 5,669 \$ 4,264 \$ 6,510 \$ 5,514 \$ SL 15 MACRS 5 SL 15 12 \$ 312 \$ 534 ADR-SYD 6 15.566 6.109 \$ 869 9 163 \$ 8.105 S SL 3 SL 3 SL 3 SL 3 12.831 8,229 \$ 1,235 \$ 2,000 Expense Expense Expense Expense - \$ 1,338 \$ 69,011 \$ 20.897 26.033 4.316 \$ 2.631 \$ 3.331 \$ 4.059 \$ 4.555 \$ 4.780 \$ 4.994 \$ 5.196 \$ 5.053 \$ 3.536 \$ 3.558 \$ 3.582 3.608 3.619 \$ 3.568 3.637 3.650 Expenses - Other Subtotal 1,180,757 \$ 1,548,231 \$ 489,661 723,221 52,254 \$ 56,146 \$ 61,353 \$ 79,330 \$ 82,633 \$ 82,497 \$ 61,426 \$ 83,753 \$ 59,784 \$ 84,538 \$ 72,589 \$ 81,241 \$ 89,963 \$ 93,413 \$ 104,579 \$ 113,174 \$ 393,060 \$ 580,543 \$ 42,071 \$ 67,979 \$ 62,151 \$ 87,504 \$ 135 Total \$ 2,288,702 \$ 1,548,231 \$ 2,849,229 \$ 3,549,476 \$ 2,147 \$ 71,814 \$ 350,627 \$ 297,138 \$ 627,107 \$ 609,845 \$ 311,055 \$ 138,252 \$ 83,459 \$ 79,330 \$ 82,633 \$ PVRR Factors from Original AMI Filling
PVRR Factors by Cost Profile (b)

139
140
141
142
143
144
145
146
147
148
149
150
151 Expense Expense Expense SL 3 SL 3 State Tax
Expense
Expense
SL 3
SL 3 Year 1 0.964 1.055 1.032 1.123 1.071 1.115 1.136 1.225 1.298 1.348 1.362 1.362 1.368 1.352 1.366 1.371 Year 25
0.010
0.010
0.010
0.010
0.010
0.010
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0.010
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0.010 76463 0.503 0.503 0.596 0.536 0.515 0.536 0.541 0.546 0.586 0.617 0.633 0.633 0.633 0.634 0.634 0.634 0.346 0.369 0.370 0.393 0.384 0.397 0.398 0.407 0.426 0.444 0.451 0.451 0.452 0.452 0.278 0.291 0.297 0.311 0.308 0.314 0.314 0.322 0.328 0.339 0.342 0.342 0.342 0.342 Vear 20 0.240 0.240 0.256 0.256 0.264 0.266 0.270 0.271 0.278 0.279 0.280 0.280 0.279 0.280 0.279 0.372 0.372 0.399 0.398 0.425 0.413 0.429 0.430 0.438 0.463 0.484 0.492 0.493 0.493 0.493 0.493 0.299 0.315 0.320 0.336 0.332 0.340 0.340 0.221 0.227 0.235 0.241 0.240 0.241 0.241 1.098 1.051 1.149 1.094 1.141 1.163 1.162 1.255 1.335 1.388 1.403 1.411 1.392 1.407 1.415 0.847 0.828 0.901 0.860 0.895 0.911 0.912 0.983 1.042 1.092 1.092 1.093 1.084 1.094 1.094 0.787 0.770 0.837 0.799 0.832 0.847 0.914 0.968 1.005 1.013 1.013 1.007 1.015 0.543 0.534 0.578 0.554 0.577 0.585 0.587 0.632 0.667 0.686 0.686 0.687 0.687 0.466 0.461 0.496 0.478 0.498 0.502 0.507 0.543 0.570 0.583 0.583 0.584 0.584 0.341 0.344 0.364 0.357 0.368 0.378 0.392 0.407 0.412 0.413 0.413 0.413 0.112 0.113 0.114 0.113 0.114 0.114 0.113 0.114 0.114 0.114 0.114 0.114 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.981 0.959 1.043 0.995 1.036 1.055 1.056 1.138 1.207 1.253 1.266 1.269 1.256 1.269 0.911 0.891 0.970 0.925 0.963 0.980 0.981 1.058 1.121 1.164 1.176 1.178 1.167 1.179 0.731 0.715 0.778 0.773 0.773 0.787 0.787 0.849 0.900 0.933 0.938 0.939 0.935 0.940 0.941 0.680 0.665 0.723 0.690 0.718 0.731 0.732 0.789 0.836 0.865 0.869 0.869 0.867 0.871 0.631 0.618 0.672 0.641 0.668 0.679 0.680 0.733 0.777 0.802 0.804 0.804 0.805 0.586 0.574 0.624 0.596 0.620 0.632 0.681 0.720 0.742 0.743 0.744 0.744 0.431 0.428 0.459 0.445 0.463 0.464 0.472 0.502 0.525 0.536 0.537 0.537 0.537 0.269 0.276 0.287 0.286 0.299 0.296 0.299 0.308 0.310 0.310 0.310 0.310 0.310 0.177 0.182 0.186 0.184 0.185 0.185 0.185 0.187 0.188 0.188 0.188 0.188 MACRS 5 MACRS 5 MACRS 5 ADR-SYD 6 ADR-SYD 6 ADR-SYD 6 ADR-SYD 12 SL 15 ADR-SYD 24 ADR-SYD 30 ADR-SYD 30 ADR-SYD 35 ADR-SYD 35 ADR-SYD 35 ADR-SYD 35 MACRS 5 MACRS 7 SL 15 MACRS 15 MACRS 20 MACRS 20 MACRS 20 MACRS 20 MACRS 20 MACRS 20 0.350 0.359 0.372 0.376 0.376 0.377 0.376 0.377 0.243 0.242 0.248 0.249 0.249 0.249 0.249 0.249 0.249 2011-2030 PVRR (2005) (50,618) \$ (10,324) \$ 154 155 Profile [a] Federal Tax State Tax 2005-2013 \$ 82,575 \$ 2005 2006 2007 2008 \$ (17.005) \$ (186.805) \$ 118.696 \$ (94.893) \$ 2015 (1.793) \$ 2016 (1.793) \$ **2017** (1.793) \$ 2019 (1.793) \$ 2023 (1.793) \$ (12,861) Calculated PVRR by Year (2005 Dollars)
Electric
Gas
IT / Network
Combined 2023 3,351 \$ 1,529 \$ 22,162 \$ 27,042 2011 114,855 \$ 37,618 \$ 106,365 \$ 258,837 \$ 2018 5,446 \$ 2,477 \$ 29,589 \$ 37,512 \$ 2022 4,060 \$ 1,609 \$ 21,688 \$ 2009 364,793 \$ 135,853 \$ 142,103 \$ 642,748 \$ 2010 323,007 105,677 145,752 574,436 2012 36,690 17,071 48,754 102,514 2014 4,955 \$ 4,337 \$ 37,351 \$ 46.643 \$ 2016 6,077 \$ 3,126 \$ 31,926 \$ 2017 5,806 \$ 2,707 \$ 30,185 \$ 38,699 \$ 2021 4,431 \$ 1,754 \$ 22,604 \$ 2025 2,895 1,544 23,465 27,904 2019 5,085 2,256 26,738 34,079 1,021,620 552,472 1,275,138 Calculated PVRR by Year (2008 Dollars)
Electric
Gas
IT / Network
Combined 79,915 \$
186,184 \$
129,363 \$
395,463 \$ 6,954 \$ 4,716 \$ 44,069 \$ 55,739 \$ 1,272,700 688,251 9,818 \$ 57,624 \$ 11,849 \$ 78,345 \$ 74,800 \$ 336,395 \$ 96,467 \$ 472,364 \$ 454,447 \$ 169,241 \$ 177,027 \$ 800,715 \$ 402,391 \$ 143,083 \$ 131,649 \$ 46,863 \$ 181,573 \$ 132,506 \$ 715,613 \$ 322,451 \$ 45,707 \$ 21,266 \$ 60,736 \$ 127,709 \$ 6,173 \$ 5,403 \$ 46,531 \$ 58,106 \$ 7,571 \$ 3,895 \$ 39,773 \$ 51,238 \$ 7,233 \$ 3,373 \$ 37,604 \$ 48,210 \$ 6,785 \$ 3,086 \$ 36,861 \$ 46,732 \$ 6,335 \$ 2,810 \$ 33,309 \$ 42,455 \$ 5,903 \$ 2,413 \$ 27,578 \$ 35,895 \$ 5,520 \$ 2,185 \$ 28,159 \$ 35,864 \$ 5,058 \$ 2,004 \$ 27,018 \$ 4,175 \$ 1,905 \$ 27,608 \$ 33,688 \$ 3,886 \$ 1,880 \$ 29,076 \$ 3,607 \$ 1,923 \$ 29,232 \$ - \$ 7,209 \$ 680 723 166 Calculated PVRR by Year - Difference between Forecast and Actual Costs (2008 Dollars

Original AMI Project + SMU Combined									
 | | | | |
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 |
|--|---|---|--|-------------------|--------------|--|---|---|---
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--|--|--|---
--|---|---|---|---
---|---|---|--
---|---|---|
| Actual Project Costs | Profile [a] Federal Tax | | Book [c] | 2005-2013 | 2011-2030 | | PVRR (2008) | 2005 | 2006 | 2007
 | 2008 | 2009 201 | 2011 | 2012 |
 | 2014 2015 | 2016 | 2017 | 2018 | 2019
 | 2020 | 2021 | 2022 | 2023 | 2024
 | 2025 | 2026 | 2027 | 2028 | 2029
 |
| Electric Meters | 11 MACRS 20/10* | ADR-SYD 30 | 27 \$ | 100,738 | \$ | 96,025 \$ | 119,625 \$ | 6 \$ | 3,356 \$ | 15,923 \$
 | | 28,367 \$ 29,39 | | | (1,125)
 | | | | |
 | | | | |
 | | | | |
 |
| Electric Meters - COR | 4 Expense | Expense | 27 \$ | 18,806 | \$ | 15,286 \$ | 19,043 \$ | - \$ | 240 \$ | 617 \$
 | 1,084 \$ | 4,600 \$ 5,73 | \$ 4,514 \$ | 2,230 \$ | (214)
 | | | | |
 | | | | |
 | | | | |
 |
| Smart Electric Meters | 12 MACRS 20/10* | ADR-SYD 30 | 27 \$ | 749.874 | S | 687 823 \$ | 856.867 \$ | - \$ | - S | - S
 | 48,239 \$ 30 | 09,439 \$ 283,66 | \$ 89.939 \$ | 17.906 \$ | 686
 | | | | |
 | | | | |
 | | | | |
 |
| Gas Meters | 13 MACRS 15/20* | | 20 \$ | 108,857 | Š | 110 174 \$ | 137,251 \$ | - \$ | 4,318 \$ |
 | | 26,493 \$ 16,96 | \$ 13,374 \$ | 8.058 \$ | 490
 | | | | |
 | | | | |
 | | | | |
 |
| Gas Meters - COR | 5 Expense | Expense | 20 \$ | 2 049 | ų. | 1.774 \$ | 2 210 \$ | - s | 107 \$ | 419 S
 | 208 \$ | 222 \$ 73 | | | 9
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 | | | | |
 | | | | |
 |
| CIS Mainframe Comp SW | 6 SL 3* | SL 3 | 15 \$ | 303,708 | \$ | 295,748 \$ | 368,433 \$ | - \$ | 19,557 \$ |
 | | 32,418 \$ 21,88 | | 4,469 \$ | 291
 | | | | |
 | | | | |
 | | | | |
 |
| CIS Mainframe Comp HW | 7 MACRS 5* | ADR-SYD 6 | 15 \$ | 89,192 | \$ | 88,060 \$ | 109,702 \$ | - \$ | 1,793 \$ | 58,175 \$
 | 1,396 \$ | 3,991 \$ 17,58 | \$ 6,074 \$ | 162 \$ | 11
 | | | | |
 | | | | |
 | | | | |
 |
| Gas Modules | 8 MACRS 15/20* | ADR-SYD 35 | 20 \$ | 352.411 | S | 359.840 \$ | 448.277 \$ | 37 \$ | 2.573 \$ | 33.423 \$
 | 104.576 \$ 9 | 98.366 \$ 87.25 | \$ 20.962 \$ | 4.971 \$ | 245
 | | | | |
 | | | | |
 | | | | |
 |
| Electric Modules | 9 MACRS 20/10* | ADR-SVD 30 | 20 \$ | 7,148 | · · | 15.285 \$ | 19.042 \$ | 46 \$ | 2.003 \$ | 19.469 \$
 | 3,625 \$ (* | 12.461) \$ (47) |) \$ (4.998) \$ | (60) \$ |
 | | | | |
 | | | | |
 | | | | |
 |
| Networks | 10 MACRS 20/10* | | | 118.739 | ų. | 113.899 \$ | 141.891 \$ | -το ψ | 2,000 \$ |
 | 12.113 \$ | | | 3.576 \$ | - 00
 | | | | |
 | | | | |
 | | | | |
 |
| | 10 MACRS 20/10 | ADR-51D 30 | 20 \$ | | 3 | | , | - þ | - ş |
 | | | | | 22
 | | | | |
 | | | | |
 | | | | |
 |
| Subtotal - Capital | | | \$ | 1,851,522 \$ | - \$ | 1,783,913 \$ | 2,222,340 \$ | 89 \$ | 33,948 \$ | 311,514 \$ 2
 | 234,912 \$ 52 | 23,119 \$ 495,61 | \$ 198,832 \$ | 53,080 \$ | 413 \$
 | - \$ - | \$ - \$ | - \$ | - \$ | - \$
 | - \$ | - \$ | - \$ | - \$ | - \$
 | - \$ | - \$ | - \$ | - \$ | - \$
 |
 | | | | |
 | | | | |
 | | | | |
 | | | | |
 |
| Expense - Other | 1 Expense | Expense | - S | 383.986 | S | 301.704 \$ | 375,852 \$ | 2.058 \$ | 37.517 \$ | 37 947 \$
 | 55 415 \$ 9 | 97,161 \$ 111,73 | \$ 34.780 \$ | 6.553 \$ | 824
 | | | | |
 | | | | |
 | | | | |
 |
| xpense - Customer Acquisition | 1 Expense | Expense | ě | 53 193 | ž. | 36.884 \$ | 45.949 \$ | _, , | 349 \$ |
 | | 6.828 \$ 2.50 | | | 5.515
 | | | | |
 | | | | |
 | | | | |
 |
	i Expense	Expense						- · ·	
 | | | | |
 | | | | |
 | | | | |
 | | | | |
 |
| ubtotal - Capital | | | \$ | 437,180 \$ | - \$ | 338,588 \$ | 421,801 \$ | 2,058 \$ | 37,866 \$ | 39,113 \$
 | 62,226 \$ 10 | 03,988 \$ 114,23 | \$ 54,165 \$ | 17,194 \$ | 6,339 \$
 | - \$ - | \$ - \$ | - \$ | - \$ | - \$
 | - \$ | - \$ | - \$ | - \$ | - \$
 | - \$ | - \$ | - \$ | - \$ | - \$
 |
 | | | | |
 | | | | |
 | | | | |
 | | | | |
 |
| btotal | | | \$ | 2,288,702 \$ | - \$ | 2,122,501 \$ | 2,644,141 \$ | 2,147 \$ | 71,814 \$ | 350,627 \$ 2
 | 297,138 \$ 62 | 27,107 \$ 609,84 | \$ 252,997 \$ | 70,274 \$ | 6,752 \$
 | - \$ - | \$ - \$ | - \$ | - \$ | - \$
 | - \$ | - \$ | - \$ | - \$ | - \$
 | - \$ | - \$ | - \$ | - \$ | - \$
 |
| ojected GRC Costs | Duefile (e) Federal Terr | C4-4- T | Deel (e) | 2005-2013 | 2011-2030 | PVRR (2005) | PVRR (2008) | 2005 | 2000 | 2007
 | 2000 | 2000 204 | 2011 | 2042 | 2013
 | 2014 2015 | 2040 | 2047 | 2040 | 2040
 | 2020 | 2021 | 2022 | 2022 | 2024
 | 2025 | 2026 | 2027 | 2020 | 2029
 |
| | Profile [a] Federal Tax | | Book [c] | 2005-2013 | | | | 2005 | 2000 | 2007
 | 2000 | 2009 201 | | 2012 |
 | | 2016 | 2017 | 2010 | 2019
 | | | 2022 | 2023 |
 | 2020 | | 2021 | 2020 | 2029
 |
nart Electric Meters	12 MACRS 20/10*		27	\$	89,539 \$	43,984 \$	54,794		
 | | \$ - | \$ 3,843 \$ | |
 | 4,766 \$ 5,711 | | | 6,751 \$ |
 | 6,669 \$ | 6,687 \$ | 6,774 \$ | 6,921 \$ |
 | | | - \$ | - \$ | - \$
 |
| tworks | 10 MACRS 20/10* | ADR-SYD 30 | 20 | \$ | 88,338 \$ | 46,269 \$ | 57,641 | | |
 | | s - | \$ 7,171 \$ | 6,061 \$ | 5,767 \$
 | 5,742 \$ 5,825 | \$ 5,523 \$ | 5,461 \$ | 5,679 \$ | 5,437 \$
 | 5,476 \$ | 5,721 \$ | 5,669 \$ | 5,898 \$ | 6,398 \$
 | 6,510 \$ | - \$ | - S | - S | - \$
 |
| Modules | 8 MACRS 15/20* | | 20 | ě | 76.154 \$ | 42,758 \$ | 53,266 | | |
 | | š - | | 6,496 \$ |
 | 5,819 \$ 5,499 | | | 4,604 \$ | 4,568 \$
 | 4,278 \$ | 4,239 \$ | 4,264 \$ | 4,456 \$ | 4,860 \$
 | | . \$ | | |
 |
			20	.					
 | | | | |
 | | | | |
 | | | | |
 | | - 3 | - 3 | - 3 | - 9
 |
| Costs - Building Attachments | 3 SL 15 | SL 15 | - | \$ | 262 \$ | 168 \$ | 209 | | |
 | | \$ - | \$ 98 \$ | 14 \$ | 14 \$
 | 14 \$ 12 | | | 12 \$ | 10 \$
 | 12 \$ | 10 \$ | 10 \$ | 12 \$ | 10 \$
 | 12 \$ | - \$ | - \$ | - \$ | - \$
 |
| Mainframe Comp HW | 7 MACRS 5* | ADR-SYD 6 | 15 | \$ | 29,339 \$ | 16,301 \$ | 20,307 | | |
 | | \$ - | \$ - \$ | 9,947 \$ | 2,192 \$
 | - \$ 6,109 | \$ - S | 1,144 \$ | 3,752 \$ | - \$
 | - \$ | 2,901 \$ | - S | - \$ | 1,415 \$
 | 312 \$ | - \$ | 869 \$ | - S | 163 S
 |
| Mainframe Comp SW | 6 SL 3* | SL 3 | 15 | ě | 12,831 \$ | 8,102 \$ | 10.094 | | |
 | | s - | s - s | - S |
 | 8,105 \$ - | s - s | - S | | - \$
 | | - S | | | - S
 | | | | |
 |
| | | | 10 | 9 | | | | | |
 | | 9 - | 7 7 | |
 | | 7 7 | - 3 | - 3 | - g
 | - \$ | - 0 | - 3 | - 3 | T.
 | - 3 | - 3 | - 3 | - 3 | - 3
 |
| tware - Expensed (Book) | 2 SL 3 | SL 3 | - | \$ | 2,000 \$ | 1,235 \$ | 1,539 | | |
 | | \$ - | • • | - \$ | -, +
 | - \$ - | \$ - \$ | - \$ | - \$ | - \$
 | - \$ | - \$ | - \$ | - \$ | - \$
 | - \$ | - \$ | - \$ | - \$ | - \$
 |
| penses - PTR Program Costs | 1 Expense | Expense | - | \$ | - \$ | - \$ | | | |
 | | \$ - | \$ - \$ | - \$ | - \$
 | - \$ - | \$ - \$ | - \$ | - \$ | - \$
 | - \$ | - \$ | - \$ | - \$ | - \$
 | - \$ | - \$ | - \$ | - \$ | - \$
 |
| enses - T-24 PCT Program Costs | 1 Expense | Expense | | s | 69.011 \$ | 21.010 \$ | 26 174 | | |
 | | s - | s - s | - S | 1.338 \$
 | 2.631 \$ 3.331 | \$ 4.059 \$ | 4.316 \$ | 4.555 \$ | 4.780 \$
 | 4.994 \$ | 5.196 \$ | 5.053 \$ | 3.536 \$ | 3.558 \$
 | 3.582 \$ | 3.608 \$ | 3 637 \$ | 3.650 \$ | 3 619 \$
 |
enses - Other				ř	1 180 757 \$	394.809 \$	491.840		
 | | ž | \$ 41.376 \$ | |
 | 52.254 \$ 56.146 | | 61.426 \$ | 62.151 \$ |
 | 56.889 \$ | 59.784 \$ | 65.490 \$ | 72.589 \$ |
 | | | | |
 |
	1 Expense	Expense		3	1,160,757 \$	574.637 \$		_	
 | | - · | | |
 | | | | |
 | | | | |
 | | | | |
 |
| btotal | | | Þ | - \$ | 1,546,231 \$ | 5/4,03/ \$ | 715,863 \$ | - \$ | - \$ | - \$
 | - \$ | - \$ - | \$ 50,050 \$ | 67,979 ф | 10,101 \$ 1
 | 79,330 \$ 82,633 | \$ 02,497 \$ | 03,753 \$ | 67,504 \$ | 00,19U \$
 | 70,310 \$ | 04,000 ф | 67,200 \$ | 93,413 \$ | 104,579 \$
 | 113,174 \$ | 55,690 \$ | 55,677 \$ | 50,144 \$ | 57,435 \$
 |
| al | | | \$ | 2,288,702 \$ | 1,548,231 | 2,697,137 \$ | 3,360,005 | 2,147 \$ | 71,814 \$ | 350,627 \$
 | 297,138 \$ 62 | 27,107 \$ 609,84 | \$ 311,055 \$ | 138,252 \$ | 83,459 \$ 7
 | 79,330 \$ 82,633 | \$ 82,497 \$ | 83,753 \$ | 87,504 \$ | 86,190 \$
 | 78,318 \$ | 84,538 \$ | 87,260 \$ | 93,413 \$ | 104,579 \$
 | 113,174 \$ | 53,890 \$ | 55,877 \$ | 56,144 \$ | 57,435 \$
 |
 | | | | |
 | | | | |
 | | | | |
 | | | | |
 |
actual PVRR Factors	B. 6. 6.1	01-1- T-	B						
 | | V | | |
 | V | | | |
 | | | | |
 | | | 1400 | |
 |
| VRR Factors by Cost Profile [d] | Profile [a] Federal Tax | State Tax | Book [c] | | | | _ | Year 0 | Year 1 | Year 2
 | | Year 4 Year | | Year 7 |
 | Year 9 Year 1 | | Year 12 | Year 13 |
 | Year 15 | Year 16 | Year 17 | Year 18 | Year 19
 | Year 20 | Year 21 | Year 22 | Year 23 | Year 24
 |
| rpenses | 1 Expense | Expense | - | | | | | | 0.964 | 0.896
 | | | 0.668 | 0.621 | 0.577
 | 0.537 0.499 | 0.463 | 0.431 | 0.400 | 0.372
 | 0.346 | 0.321 | 0.299 | |
 | | | | | 0.058
 |
								1.000	
 | 0.833 | 0.774 0.71 | 0.000 | |
 | | | | |
 | | | | 0.278 | 0.258
 | 0.240 | 0.223 | 0.194 | 0.117 | 0.056
 |
flware - Expensed (Book)	2 SL3								
 | | | | |
 | | | 0.461 | |
 | | | | |
 | | | | |
 |
| | | SL 3 | - | | | | | 1.051 | 1.032 | 0.959
 | 0.891 | 0.828 0.77 | 0.715 | 0.665 | 0.618
 | 0.574 0.534 | 0.496 | 0.461 | 0.428 | 0.398
 | 0.370 | 0.344 | 0.320 | 0.297 | 0.276
 | 0.256 | 0.237 | 0.204 | 0.120 | 0.059
 |
| te Costs - Building Attachments | 3 SL 15 | SL 3
SL 15 | - | | | | | 1.051
1.255 | 1.032
1.225 | 0.959
1.138
 | 0.891
1.058 | 0.828 0.77
0.983 0.91 | 0.715
0.849 | 0.665
0.789 | 0.618
0.733
 | 0.574 0.534
0.681 0.633 | 0.496
0.587 | 0.544 | 0.428
0.503 | 0.398
0.465
 | 0.370
0.429 | 0.344
0.395 | 0.320
0.362 | 0.297
0.332 | 0.276
0.302
 | 0.256
0.275 | 0.237
0.249 | 0.204
0.209 | 0.120
0.121 | 0.059
0.059
 |
| e Costs - Building Attachments | | SL 3 | -
-
27 | | | | | 1.051
1.255
1.133 | 1.032
1.225
1.087 | 0.959
 | 0.891
1.058 | 0.828 0.77 | 0.715
0.849 | 0.665 | 0.618
0.733
 | 0.574 0.534 | 0.496 | | 0.428 | 0.398
0.465
 | 0.370 | 0.344 | 0.320
0.362
0.317 | 0.297 | 0.276
 | 0.256 | 0.237 | 0.204
0.209
0.197 | 0.120 | 0.059
 |
| te Costs - Building Attachments
ectric Meters - Cost of Removal (COR) | 3 SL 15
4 Expense | SL 3
SL 15
Expense | -
-
27
20 | | | | | 1.051
1.255
1.133 | 1.032
1.225
1.087 | 0.959
1.138
 | 0.891
1.058
0.937 | 0.828 0.77
0.983 0.91 | 0.715
0.849 | 0.665
0.789 | 0.618
0.733
0.640
 | 0.574 0.534
0.681 0.633 | 0.496
0.587 | 0.544 | 0.428
0.503 | 0.398
0.465
 | 0.370
0.429 | 0.344
0.395 | 0.320
0.362
0.317 | 0.297
0.332
0.293 | 0.276
0.302
0.270
 | 0.256
0.275 | 0.237
0.249
0.229 | 0.204
0.209
0.197 | 0.120
0.121 | 0.059
0.059
 |
| te Costs - Building Attachments
ectric Meters - Cost of Removal (COR)
as Meters - Cost of Removal (COR) | 3 SL 15
4 Expense
5 Expense | SL 3
SL 15
Expense
Expense | | | | | | 1.051
1.255
1.133
1.123 | 1.032
1.225
1.087
1.080 | 0.959
1.138
1.009
1.005
 | 0.891
1.058
0.937
0.935 | 0.828 0.770
0.983 0.914
0.869 0.809
0.868 0.809 | 0.715
0.849
0.746
0.746 | 0.665
0.789
0.691
0.691 | 0.618
0.733
0.640
0.640
 | 0.574 0.534
0.681 0.633
0.593 0.549
0.593 0.549 | 0.496
0.587
0.508
0.508 | 0.544
0.470
0.470 | 0.428
0.503
0.435
0.435 | 0.398
0.465
0.402
0.402
 | 0.370
0.429
0.372
0.372 | 0.344
0.395
0.344
0.344 | 0.320
0.362
0.317
0.317 | 0.297
0.332
0.293
0.293 | 0.276
0.302
0.270
0.270
 | 0.256
0.275
0.249
0.249 | 0.237
0.249
0.229
0.229 | 0.204
0.209
0.197
0.197 | 0.120
0.121
0.118
0.118 | 0.059
0.059
0.058
0.058
 |
| e Costs - Building Attachments
ectric Meters - Cost of Removal (COR)
is Meters - Cost of Removal (COR)
MP 30304 (CIS Mainframe Comp SW) | 3 SL 15
4 Expense
5 Expense
6 SL 3* | SL 3
SL 15
Expense
Expense
SL 3 | | | | | | 1.051
1.255
1.133
1.123
1.158 | 1.032
1.225
1.087
1.080
1.132 | 0.959
1.138
1.009
1.005
1.053
 | 0.891
1.058
0.937
0.935
0.956 | 0.828 0.77
0.983 0.91
0.869 0.80
0.868 0.80
0.888 0.82 | 0.715
0.849
0.746
0.746
0.746 | 0.665
0.789
0.691
0.691
0.712 | 0.618
0.733
0.640
0.640
0.662
 | 0.574 0.534 0.681 0.633 0.593 0.549 0.593 0.549 0.614 0.584 | 0.496
0.587
0.508
0.508
0.541 | 0.544
0.470
0.470
0.501 | 0.428
0.503
0.435
0.435
0.463 | 0.398
0.465
0.402
0.402
0.428
 | 0.370
0.429
0.372
0.372
0.396 | 0.344
0.395
0.344
0.344
0.366 | 0.320
0.362
0.317
0.317
0.338 | 0.297
0.332
0.293
0.293
0.312 | 0.276
0.302
0.270
0.270
0.288
 | 0.256
0.275
0.249
0.249
0.266 | 0.237
0.249
0.229
0.229
0.244 | 0.204
0.209
0.197
0.197
0.208 | 0.120
0.121
0.118
0.118
0.121 | 0.059
0.059
0.058
0.058
0.059
 |
| te Costs - Building Attachments
ectric Meters - Cost of Removal (COR)
as Meters - Cost of Removal (COR)
MP 30304 (CIS Mainframe Comp SW) | 3 SL 15
4 Expense
5 Expense
6 SL 3* | SL 3
SL 15
Expense
Expense | | | | | | 1.051
1.255
1.133
1.123 | 1.032
1.225
1.087
1.080
1.132
1.144 | 0.959
1.138
1.009
1.005
 | 0.891
1.058
0.937
0.935
0.956 | 0.828 0.770
0.983 0.914
0.869 0.809
0.868 0.809 | 0.715
0.849
0.746
0.746
0.746 | 0.665
0.789
0.691
0.691 | 0.618
0.733
0.640
0.640
0.662
 | 0.574 0.534
0.681 0.633
0.593 0.549
0.593 0.549 | 0.496
0.587
0.508
0.508 | 0.544
0.470
0.470 | 0.428
0.503
0.435
0.435 | 0.398
0.465
0.402
0.402
0.428
 | 0.370
0.429
0.372
0.372 | 0.344
0.395
0.344
0.344 | 0.320
0.362
0.317
0.317 | 0.297
0.332
0.293
0.293 | 0.276
0.302
0.270
0.270
 | 0.256
0.275
0.249
0.249 | 0.237
0.249
0.229
0.229 | 0.204
0.209
0.197
0.197 | 0.120
0.121
0.118
0.118 | 0.059
0.059
0.058
0.058
 |
| te Costs - Building Attachments
ectric Meters - Cost of Removal (COR)
as Meters - Cost of Removal (COR)
MP 30304 (CIS Mainframe Comp SW)
MP 39104 (CIS Mainframe Comp HW) | 3 SL 15 4 Expense 5 Expense 6 SL 3* 7 MACRS 5* | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 6 | | | | | | 1.051
1.255
1.133
1.123
1.158 | 1.032
1.225
1.087
1.080
1.132
1.144 | 0.959
1.138
1.009
1.005
1.053
1.065
 | 0.891
1.058
0.937
0.935
0.956
0.963 | 0.828 0.77'
0.983 0.91'
0.869 0.80'
0.868 0.80'
0.888 0.82'
0.894 0.824 | 0.715
0.849
0.746
0.746
0.746
0.748 | 0.665
0.789
0.691
0.691
0.712 | 0.618
0.733
0.640
0.640
0.662
0.666
 | 0.574 0.534 0.681 0.633 0.593 0.549 0.593 0.549 0.614 0.584 0.618 0.591 | 0.496
0.587
0.508
0.508
0.541 | 0.544
0.470
0.470
0.501 | 0.428
0.503
0.435
0.435
0.463
0.468 | 0.398
0.465
0.402
0.402
0.428
0.433
 | 0.370
0.429
0.372
0.372
0.396 | 0.344
0.395
0.344
0.344
0.366
0.370 | 0.320
0.362
0.317
0.317
0.338
0.342 | 0.297
0.332
0.293
0.293
0.312 | 0.276
0.302
0.270
0.270
0.288
0.291
 | 0.256
0.275
0.249
0.249
0.266
0.268 | 0.237
0.249
0.229
0.229
0.244
0.245 | 0.204
0.209
0.197
0.197
0.208
0.208 | 0.120
0.121
0.118
0.118
0.121
0.121 | 0.059
0.059
0.058
0.058
0.058
0.059
 |
| e Costs - Building Attachments
ectric Meters - Cost of Removal (COR)
is Meters - Cost of Removal (COR)
IP 30304 (CIS Mainframe Comp SW)
IP 39104 (CIS Mainframe Comp HW)
IP 39106 (Gas Modules) | 3 SL 15 4 Expense 5 Expense 6 SL 3* 7 MACRS 5* 8 MACRS 15/20* | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 6
ADR-SYD 35 | 20
15
15 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374 | 1.032
1.225
1.087
1.080
1.132
1.144
1.335 | 0.959
1.138
1.009
1.005
1.053
1.065
1.242
 | 0.891
1.058
0.937
0.935
0.956
0.963
1.088 | 0.828 0.77
0.983 0.91
0.869 0.80
0.868 0.80
0.888 0.82
0.894 0.82
1.007 0.93 | 0.715
0.849
0.746
0.746
0.746
0.748
0.779 | 0.665
0.789
0.691
0.691
0.712
0.717
0.801 | 0.618
0.733
0.640
0.640
0.662
0.666
0.741
 | 0.574 0.534 0.681 0.633 0.593 0.549 0.593 0.549 0.614 0.584 0.618 0.591 0.685 0.694 | 0.496
0.587
0.508
0.508
0.541
0.547
0.640 | 0.544
0.470
0.470
0.501
0.506
0.590 | 0.428
0.503
0.435
0.435
0.463
0.468
0.542 | 0.398
0.465
0.402
0.402
0.428
0.433
0.498
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457 | 0.344
0.395
0.344
0.344
0.366
0.370
0.418 | 0.320
0.362
0.317
0.317
0.338
0.342
0.381 | 0.297
0.332
0.293
0.293
0.312
0.316
0.347 | 0.276
0.302
0.270
0.270
0.288
0.291
0.315
 | 0.256
0.275
0.249
0.249
0.266
0.268
0.284 | 0.237
0.249
0.229
0.229
0.244
0.245
0.255 | 0.204
0.209
0.197
0.197
0.208
0.208
0.213 | 0.120
0.121
0.118
0.118
0.121
0.121
0.122 | 0.059
0.059
0.058
0.058
0.058
0.059
0.059
 |
| e Costs - Building Áttachments
ctric Meters - Cost of Removal (COR)
is Meters - Cost of Removal (COR)
IP 30304 (CIS Mainframe Comp SW)
IP 39104 (CIS Mainframe Comp HW)
IP 39706 (Gas Modules)
IP 39707 (Electric Modules) | 3 SL 15 4 Expense 5 Expense 6 SL 3* 7 MACRS 5* 8 MACRS 15/20* 9 MACRS 20/10* | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 6
ADR-SYD 35
ADR-SYD 30 | 20
15
15 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374
1.414 | 1.032
1.225
1.087
1.080
1.132
1.144
1.335
1.373 | 0.959
1.138
1.009
1.005
1.053
1.065
1.242
1.277
 | 0.891
1.058
0.937
0.935
0.956
0.963
1.088
1.085 | 0.828 0.77
0.983 0.91
0.869 0.80
0.868 0.80
0.888 0.82
0.894 0.82
1.007 0.93
0.963 0.87 | 0.715
0.849
0.746
0.746
0.746
0.748
0.779 | 0.665
0.789
0.691
0.691
0.712
0.717
0.801
0.767 | 0.618
0.733
0.640
0.640
0.662
0.666
0.741
0.710
 | 0.574 0.534 0.681 0.633 0.593 0.549 0.593 0.549 0.614 0.584 0.618 0.591 0.685 0.694 0.658 0.648 | 0.496
0.587
0.508
0.508
0.541
0.547
0.640
0.600 | 0.544
0.470
0.470
0.501
0.506
0.590
0.555 | 0.428
0.503
0.435
0.435
0.463
0.468
0.542
0.513 | 0.398
0.465
0.402
0.402
0.428
0.433
0.498
0.474
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457
0.437 | 0.344
0.395
0.344
0.344
0.366
0.370
0.418
0.403 | 0.320
0.362
0.317
0.317
0.338
0.342
0.381
0.370 | 0.297
0.332
0.293
0.293
0.312
0.316
0.347
0.338 | 0.276
0.302
0.270
0.270
0.288
0.291
0.315
0.308
 | 0.256
0.275
0.249
0.249
0.266
0.268
0.284
0.280 | 0.237
0.249
0.229
0.229
0.244
0.245
0.255
0.253 | 0.204
0.209
0.197
0.197
0.208
0.208
0.213
0.212 | 0.120
0.121
0.118
0.118
0.121
0.121
0.122
0.122 | 0.059
0.059
0.058
0.058
0.059
0.059
0.059
0.059
 |
| e Costs - Building Áttachments
ctric Meters - Cost of Removal (COR)
S Meters - Cost of Removal (COR)
P 30304 (CIS Mainframe Comp SW)
P 39104 (CIS Mainframe Comp HW)
P 39706 (Gas Modules)
P 39707 (Electric Modules) | 3 SL 15 4 Expense 5 Expense 6 SL 3* 7 MACRS 5* 8 MACRS 15/20* | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 6
ADR-SYD 35
ADR-SYD 30 | 20
15
15 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374 | 1.032
1.225
1.087
1.080
1.132
1.144
1.335 | 0.959
1.138
1.009
1.005
1.053
1.065
1.242
 | 0.891
1.058
0.937
0.935
0.956
0.963
1.088
1.085 | 0.828 0.77
0.983 0.91
0.869 0.80
0.868 0.80
0.888 0.82
0.894 0.82
1.007 0.93 | 0.715
0.849
0.746
0.746
0.746
0.748
0.779 | 0.665
0.789
0.691
0.691
0.712
0.717
0.801 | 0.618
0.733
0.640
0.640
0.662
0.666
0.741
0.710
 | 0.574 0.534 0.681 0.633 0.593 0.549 0.593 0.549 0.614 0.584 0.618 0.591 0.685 0.694 | 0.496
0.587
0.508
0.508
0.541
0.547
0.640 | 0.544
0.470
0.470
0.501
0.506
0.590 | 0.428
0.503
0.435
0.435
0.463
0.468
0.542 | 0.398
0.465
0.402
0.402
0.428
0.433
0.498
0.474
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457 | 0.344
0.395
0.344
0.344
0.366
0.370
0.418 | 0.320
0.362
0.317
0.317
0.338
0.342
0.381 | 0.297
0.332
0.293
0.293
0.312
0.316
0.347 | 0.276
0.302
0.270
0.270
0.288
0.291
0.315
 | 0.256
0.275
0.249
0.249
0.266
0.268
0.284 | 0.237
0.249
0.229
0.229
0.244
0.245
0.255 | 0.204
0.209
0.197
0.197
0.208
0.208
0.213 | 0.120
0.121
0.118
0.118
0.121
0.121
0.122 | 0.059
0.059
0.058
0.058
0.058
0.059
0.059
 |
| e Costs - Building Attachments
ctric Meters - Cost of Removal (COR)
s Meters - Cost of Removal (COR)
IP 30304 (CIS Mainframe Comp SW)
IP 39104 (CIS Mainframe Comp HW)
IP 39706 (Gas Modules)
IP 39707 (Electric Modules)
IP 39708 (Networks) | 3 SL 15 4 Expense 5 Expense 6 SL 3* 7 MACRS 5* 8 MACRS 15/20* 9 MACRS 20/10* | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 6
ADR-SYD 35
ADR-SYD 30
ADR-SYD 30 | 20
15
15 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374
1.414 | 1.032
1.225
1.087
1.080
1.132
1.144
1.335
1.373 | 0.959
1.138
1.009
1.005
1.053
1.065
1.242
1.277
 | 0.891
1.058
0.937
0.935
0.963
1.088
1.085 | 0.828 0.77
0.983 0.91
0.869 0.80
0.868 0.80
0.888 0.82
0.894 0.82
1.007 0.93
0.963 0.87 | 0.715
0.849
0.746
0.746
0.746
0.748
0.779
0.775 | 0.665
0.789
0.691
0.691
0.712
0.717
0.801
0.767 | 0.618
0.733
0.640
0.640
0.662
0.666
0.741
0.710
 | 0.574 0.534 0.681 0.633 0.593 0.549 0.593 0.549 0.614 0.584 0.618 0.591 0.685 0.694 0.658 0.648 | 0.496
0.587
0.508
0.508
0.541
0.547
0.640
0.600 | 0.544
0.470
0.470
0.501
0.506
0.590
0.555 | 0.428
0.503
0.435
0.435
0.463
0.468
0.542
0.513 | 0.398
0.465
0.402
0.402
0.428
0.433
0.498
0.474
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457
0.437 | 0.344
0.395
0.344
0.344
0.366
0.370
0.418
0.403 | 0.320
0.362
0.317
0.317
0.338
0.342
0.381
0.370 | 0.297
0.332
0.293
0.293
0.312
0.316
0.347
0.338 | 0.276
0.302
0.270
0.270
0.288
0.291
0.315
0.308
 | 0.256
0.275
0.249
0.249
0.266
0.268
0.284
0.280 | 0.237
0.249
0.229
0.229
0.244
0.245
0.255
0.253 | 0.204
0.209
0.197
0.197
0.208
0.208
0.213
0.212 | 0.120
0.121
0.118
0.118
0.121
0.121
0.122
0.122 | 0.059
0.059
0.058
0.058
0.059
0.059
0.059
0.059
 |
| Costs - Building Attachments
trick Meters - Cost of Removal (COR)
Meters - Cost of Removal (COR)
- 30304 (CIS Mainframe Comp SW)
- 39706 (Gas Modules)
- 39707 (Electrick)
- 39706 (Networks)
- 37000 (Electric Meters) | 3 SL 15 4 Expense 5 Expense 6 SL 3* 7 MACRS 5* 8 MACRS 15/20* 9 MACRS 20/10* 10 MACRS 20/10* 11 MACRS 20/10* | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 35
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30 | 20
15
15
20
20
20
27 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374
1.414
1.414 | 1.032
1.225
1.087
1.080
1.132
1.144
1.335
1.373
1.373 | 0.959
1.138
1.009
1.005
1.053
1.065
1.242
1.277
1.277
 | 0.891
1.058
0.937
0.935
0.956
0.963
1.088
1.085
1.085 | 0.828 0.77
0.983 0.91
0.869 0.80
0.868 0.80
0.888 0.82
0.894 0.82
1.007 0.93
0.963 0.87
0.963 0.89
0.964 0.89 | 0.715
0.849
0.746
0.746
0.746
0.748
0.779
0.775
0.775 | 0.665
0.789
0.691
0.691
0.712
0.717
0.801
0.767
0.767 | 0.618
0.733
0.640
0.640
0.662
0.666
0.741
0.710
0.710
 | 0.574 0.534 0.681 0.633 0.593 0.549 0.593 0.549 0.614 0.584 0.618 0.591 0.685 0.694 0.658 0.648 0.658 0.648 0.658 0.648 | 0.496
0.587
0.508
0.508
0.541
0.547
0.640
0.600
0.600 | 0.544
0.470
0.470
0.501
0.506
0.590
0.555
0.555 | 0.428
0.503
0.435
0.435
0.463
0.468
0.542
0.513
0.513 | 0.398
0.465
0.402
0.402
0.428
0.433
0.498
0.474
0.474
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457
0.437
0.437 | 0.344
0.395
0.344
0.344
0.366
0.370
0.418
0.403
0.403 | 0.320
0.362
0.317
0.317
0.338
0.342
0.381
0.370
0.370 | 0.297
0.332
0.293
0.293
0.312
0.316
0.347
0.338
0.338 | 0.276
0.302
0.270
0.270
0.288
0.291
0.315
0.308
0.308
 | 0.256
0.275
0.249
0.249
0.266
0.268
0.284
0.280
0.280 | 0.237
0.249
0.229
0.229
0.244
0.245
0.255
0.253
0.253 | 0.204
0.209
0.197
0.197
0.208
0.208
0.213
0.212
0.212 | 0.120
0.121
0.118
0.118
0.121
0.121
0.122
0.122
0.122
0.122 | 0.059
0.059
0.058
0.058
0.059
0.059
0.059
0.059
0.059
0.059
 |
| Costs - Building Attachments
chic Meters - Cost of Removal (COR)
Meters - Cost of Removal (COR)
9 30304 (CIS Mainframe Comp SW)
9 39104 (CIS Mainframe Comp HW)
9 39706 (Gas Modules)
9 39707 (Electric Modules)
P 39708 (Networks)
3 37000 (Electric Meters)
3 37001 (Smart Electric Meters) | 3 SL 15 4 Expense 5 Expense 6 SL 3* 7 MACRS 5* 8 MACRS 15/20* 9 MACRS 20/10* 10 MACRS 20/10* 11 MACRS 20/10* 12 MACRS 20/10* | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 6
ADR-SYD 35
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30 | 20
15
15 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374
1.414
1.414
1.424 | 1.032
1.225
1.087
1.080
1.132
1.144
1.335
1.373
1.373
1.380
1.380 | 0.959
1.138
1.009
1.005
1.053
1.065
1.242
1.277
1.277
1.282
1.282
 | 0.891
1.058
0.937
0.935
0.956
0.963
1.088
1.085
1.085
1.087 | 0.828 0.777 0.983 0.91 0.869 0.800 0.868 0.80 0.868 0.80 0.888 0.82 0.894 0.82 0.963 0.87 0.963 0.89 0.964 0.89 0.964 0.89 | 0.715
0.849
0.746
0.746
0.746
0.748
0.779
0.775
0.775 | 0.665
0.789
0.691
0.691
0.712
0.717
0.801
0.767
0.767
0.767 | 0.618
0.733
0.640
0.640
0.662
0.662
0.741
0.710
0.710
0.710
 | 0.574 0.534 0.681 0.633 0.593 0.549 0.593 0.549 0.614 0.584 0.618 0.591 0.655 0.648 0.658 0.648 0.658 0.648 0.658 0.648 0.658 0.648 0.658 0.648 0.658 0.648 | 0.496
0.587
0.508
0.508
0.541
0.547
0.640
0.600
0.600
0.600 | 0.544
0.470
0.470
0.501
0.506
0.590
0.555
0.555
0.555 | 0.428
0.503
0.435
0.435
0.463
0.468
0.542
0.513
0.513 | 0.398
0.465
0.402
0.402
0.428
0.433
0.498
0.474
0.474
0.474
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457
0.437
0.437
0.437 | 0.344
0.395
0.344
0.344
0.366
0.370
0.418
0.403
0.403
0.403 | 0.320
0.362
0.317
0.317
0.338
0.342
0.381
0.370
0.370
0.370 | 0.297
0.332
0.293
0.293
0.312
0.316
0.347
0.338
0.338
0.338 | 0.276
0.302
0.270
0.270
0.288
0.291
0.315
0.308
0.308
 | 0.256
0.275
0.249
0.249
0.266
0.268
0.284
0.280
0.280
0.280 | 0.237
0.249
0.229
0.229
0.244
0.245
0.255
0.253
0.253
0.253 | 0.204
0.209
0.197
0.197
0.208
0.208
0.213
0.212
0.212
0.212 | 0.120
0.121
0.118
0.118
0.121
0.121
0.122
0.122
0.122
0.122
0.122 | 0.059
0.059
0.058
0.058
0.059
0.059
0.059
0.059
0.059
0.059
0.059
 |
| Costs - Building Attachments
trick Meters - Cost of Removal (COR)
Meters - Cost of Removal (COR)
9 30304 (CIS Mainframe Comp HW)
P 39104 (CIS Mainframe Comp HW)
P 39707 (Electric Medules)
P 39707 (Electric Medules)
7 37000 (Reichic Meters)
3 37000 (Smart Electric Meters)
9 38100 (Sam Meters) | 3 St. 15 4 Expense 5 Expense 5 Expense 7 MACRS 5: 3° 7 MACRS 5: 20° 9 MACRS 20°10° 10 MACRS 20°10° 11 MACRS 20°10° 12 MACRS 20°10° 13 MACRS 15/20° | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 6
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 35 | 20
15
15
20
20
20
27
27
27 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374
1.414
1.414
1.424
1.424
1.424 | 1.032
1.225
1.087
1.080
1.132
1.144
1.335
1.373
1.373
1.380
1.380
1.335 | 0.959
1.138
1.009
1.005
1.053
1.065
1.242
1.277
1.277
1.282
1.282
1.242
 | 0.891
1.058
0.937
0.935
0.956
0.963
1.088
1.085
1.085
1.087 | 0.828 0.77
0.983 0.91
0.869 0.80
0.868 0.80
0.888 0.82
1.007 0.93
0.963 0.87
0.963 0.87
0.964 0.89
0.964 0.89 | 0.715
0.849
0.746
0.746
0.746
0.748
0.779
0.775
0.775
0.775 | 0.665
0.789
0.691
0.691
0.712
0.717
0.801
0.767
0.767
0.767
0.767 | 0.618
0.733
0.640
0.640
0.662
0.666
0.741
0.710
0.710
0.710
0.710
0.710
 | 0.574 0.534
0.681 0.633
0.593 0.549
0.593 0.549
0.614 0.584
0.618 0.591
0.685 0.694
0.658 0.648
0.658 0.648
0.658 0.648
0.658 0.648 | 0.496
0.587
0.508
0.508
0.541
0.547
0.640
0.600
0.600
0.600
0.600 | 0.544
0.470
0.470
0.501
0.506
0.590
0.555
0.555
0.555
0.555 | 0.428
0.503
0.435
0.435
0.463
0.468
0.542
0.513
0.513
0.513
0.513 | 0.398
0.465
0.402
0.402
0.402
0.428
0.433
0.498
0.474
0.474
0.474
0.474
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457
0.437
0.437
0.437 | 0.344
0.395
0.344
0.344
0.366
0.370
0.418
0.403
0.403
0.403
0.403
0.403 | 0.320
0.362
0.317
0.317
0.338
0.342
0.381
0.370
0.370
0.370
0.370 | 0.297
0.332
0.293
0.293
0.312
0.316
0.347
0.338
0.338
0.338 | 0.276
0.302
0.270
0.270
0.288
0.291
0.315
0.308
0.308
0.308
 | 0.256
0.275
0.249
0.249
0.266
0.268
0.284
0.280
0.280
0.280
0.280 | 0.237
0.249
0.229
0.229
0.244
0.245
0.255
0.253
0.253
0.253
0.253 | 0.204
0.209
0.197
0.197
0.208
0.208
0.213
0.212
0.212
0.212
0.212
0.212 | 0.120
0.121
0.118
0.118
0.121
0.121
0.122
0.122
0.122
0.122
0.122
0.122
0.122 | 0.059
0.059
0.058
0.058
0.059
0.059
0.059
0.059
0.059
0.059
0.059
0.059
 |
| Costs - Building Attachments
trick Meters - Cost of Removal (COR)
Meters - Cost of Removal (COR)
9 30304 (CIS Mainframe Comp HW)
P 39104 (CIS Mainframe Comp HW)
P 39707 (Electric Medules)
P 39707 (Electric Medules)
7 37000 (Reichic Meters)
3 37000 (Smart Electric Meters)
9 38100 (Sam Meters) | 3 SL 15 4 Expense 5 Expense 6 SL 3* 7 MACRS 5* 8 MACRS 15/20* 9 MACRS 20/10* 10 MACRS 20/10* 11 MACRS 20/10* 12 MACRS 20/10* | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 6
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 35 | 20
15
15
20
20
20
27 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374
1.414
1.414
1.424 | 1.032
1.225
1.087
1.080
1.132
1.144
1.335
1.373
1.373
1.380
1.380 | 0.959
1.138
1.009
1.005
1.053
1.065
1.242
1.277
1.277
1.282
1.282
 | 0.891
1.058
0.937
0.935
0.956
0.963
1.088
1.085
1.085
1.087 | 0.828 0.777 0.983 0.91 0.869 0.800 0.868 0.80 0.868 0.80 0.888 0.82 0.894 0.82 0.963 0.87 0.963 0.89 0.964 0.89 0.964 0.89 | 0.715
0.849
0.746
0.746
0.746
0.748
0.779
0.775
0.775
0.775 | 0.665
0.789
0.691
0.691
0.712
0.717
0.801
0.767
0.767
0.767 | 0.618
0.733
0.640
0.640
0.662
0.666
0.741
0.710
0.710
0.710
0.710
0.710
 | 0.574 0.534 0.681 0.633 0.593 0.549 0.593 0.549 0.614 0.584 0.618 0.591 0.655 0.648 0.658 0.648 0.658 0.648 0.658 0.648 0.658 0.648 0.658 0.648 0.658 0.648 | 0.496
0.587
0.508
0.508
0.541
0.547
0.640
0.600
0.600
0.600 | 0.544
0.470
0.470
0.501
0.506
0.590
0.555
0.555
0.555 | 0.428
0.503
0.435
0.435
0.463
0.468
0.542
0.513
0.513 | 0.398
0.465
0.402
0.402
0.402
0.428
0.433
0.498
0.474
0.474
0.474
0.474
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457
0.437
0.437
0.437 | 0.344
0.395
0.344
0.344
0.366
0.370
0.418
0.403
0.403
0.403 | 0.320
0.362
0.317
0.317
0.338
0.342
0.381
0.370
0.370
0.370 | 0.297
0.332
0.293
0.293
0.312
0.316
0.347
0.338
0.338
0.338 | 0.276
0.302
0.270
0.270
0.288
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0.315
0.308
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 | 0.256
0.275
0.249
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0.266
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0.284
0.280
0.280
0.280 | 0.237
0.249
0.229
0.229
0.244
0.245
0.255
0.253
0.253
0.253 | 0.204
0.209
0.197
0.197
0.208
0.208
0.213
0.212
0.212
0.212 | 0.120
0.121
0.118
0.118
0.121
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0.122
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0.122
0.122 | 0.059
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 |
| Costs - Building Attachments trick Meters - Cost of Removal (COR) Meters - Cost of Removal (COR) Meters - Cost of Removal (COR) 390304 (CIS Mainframe Comp SW) 39104 (CIS Mainframe Comp HW) 39706 (Gas Modules) 39707 (Electric Modules) 39708 (Networks) 37000 (Electric Meters) 37000 (Electric Meters) 37001 (Smart Electric Meters) 38100 (Cas Meters) 39707 (Computer - Fed) | 3 SL 15 Expense 5 Expense 6 SL 3* 7 MACRS 5* 8 MACRS 15/20* 9 MACRS 20/10* 10 MACRS 20/10* 11 MACRS 20/10* 12 MACRS 20/10* 13 MACRS 15/20* 14 MACRS 20/5* | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 6
ADR-SYD 35
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 35
ADR-SYD 35
ADR-SYD 35 | 20
15
15
20
20
20
27
27
27 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374
1.414
1.414
1.424
1.424
1.424 | 1.032
1.225
1.087
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1.144
1.335
1.373
1.373
1.380
1.380
1.335
1.373 | 0.959
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1.009
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1.242
1.277
1.277
1.282
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1.282
1.242
1.277
 | 0.891
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0.937
0.935
0.956
0.963
1.088
1.085
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1.087 | 0.828 0.77 0.983 0.91 0.869 0.80 0.868 0.80 0.868 0.82 0.894 0.82 1.007 0.93 0.963 0.89 0.964 0.89 0.964 0.89 1.007 0.90 | 0.715
0.849
0.746
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0.748
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0.498
0.442
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457
0.437
0.437
0.437 | 0.344
0.395
0.344
0.366
0.370
0.418
0.403
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0.370
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0.347 | 0.297
0.332
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0.312
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0.347
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0.338
0.338 | 0.276
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0.270
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 | 0.256
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| Costs - Building Attachments ctric Meters - Cost of Removal (COR) s Meters - Cost of Removal (COR) 19 30304 (CIS Mainframe Comp HW) 19 39104 (CIS Mainframe Comp HW) 19 39706 (Cas Modules) 19 39707 (Electric Modules) 19 39707 (Electric Modules) 19 37000 (Electric Meters) 19 37000 (Smart Electric Meters) 19 37000 (Smart Electric Meters) 19 31000 (Smart Biectric Meters) 19 31000 (Smart Biectric Meters) 19 39100 (Computer - Fed) 19 39707 (Computer - Fed) 19 39707 (Computer - Fed) 19 39707 (Computer - Fed) | 3 St. 15 4 Expense 5 Expense 5 Expense 6 Farman Andres 5: 20° 7 MACRS 5: 20° 9 MACRS 2010° 10 MACRS 2010° 11 MACRS 2010° 12 MACRS 2010° 13 MACRS 15:20° 14 MACRS 205 15 MACRS 205 | SL 3
SL 15
Expense
Expense
Expense
SL 3
ADR-SYD 36
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 35
ADR-SYD 36
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30
ADR-SYD 30 | 20
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 | 0.891
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1.088
1.085 | 0.828 0.777 0.983 0.91- 0.869 0.800 0.868 0.80 0.888 0.82 1.007 0.93 0.963 0.87 0.963 0.89 0.964 0.89 1.007 0.93 0.964 0.89 1.007 0.90 0.929 0.85 | 0.715
0.849
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0.779
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0.789
0.691
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0.712
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0.801
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0.801
0.740 | 0.618
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0.640
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0.741
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0.741
0.685
0.668
 | 0.574 0.534
0.681 0.633
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0.593 0.549
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0.618 0.591
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0.658 0.648
0.658 0.648
0.655 0.694
0.635 0.695 | 0.496
0.587
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0.541
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0.640
0.560 | 0.544
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0.470
0.501
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0.590
0.555
0.555
0.555
0.555
0.555 | 0.428
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0.435
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0.542
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0.513
0.542
0.479 | 0.398
0.465
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0.402
0.428
0.433
0.498
0.474
0.474
0.474
0.474
0.474
0.474
0.498
0.442
0.433
 | 0.370
0.429
0.372
0.372
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0.401
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0.437
0.401 | 0.344
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0.366
0.370
0.418
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0.403 | 0.320
0.362
0.317
0.317
0.318
0.342
0.381
0.370
0.370
0.370
0.370
0.370
0.381
0.342 | 0.297
0.332
0.293
0.293
0.312
0.316
0.347
0.338
0.338
0.338
0.338
0.347
0.320 | 0.276
0.302
0.270
0.270
0.288
0.291
0.315
0.308
0.308
0.308
0.308
0.315
0.294
 | 0.256
0.275
0.249
0.249
0.266
0.268
0.284
0.280
0.280
0.280
0.280
0.284
0.270
0.268 | 0.237
0.249
0.229
0.229
0.244
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0.253
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0.255
0.254 | 0.204
0.209
0.197
0.197
0.208
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0.213
0.212
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0.208 | 0.120
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 |
| e Costs - Building Attachments schric Meters - Cost of Removal (COR) is Meters - Maintrame Comp SW) if 93004 (Clist Maintrame Comp HW) if 930706 (Gas Modules) if 930707 (Electric Medules) if 930700 (Floric Meters) if 93000 (Floric Meters) if 930700 (Gornputer - Fed/State) if 930707 (Computer - Fed/State) if 9307007 (Computer - Fed/State) if 9307001 (Computer - Fed) | 3 SL 15 Expense 5 Expense 6 SL 3* 7 MACRS 5* 8 MACRS 15/20* 9 MACRS 20/10* 10 MACRS 20/10* 11 MACRS 20/10* 12 MACRS 20/10* 13 MACRS 15/20* 14 MACRS 20/5 15 MACRS 20/5 16 MACRS 20/5 | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 6
ADR-SYD 30
ADR-SYD 30 | 20
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15
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20
20
20
27 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374
1.414
1.424
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1.424
1.424
1.414
1.414 | 1.032
1.225
1.087
1.080
1.132
1.144
1.335
1.373
1.380
1.380
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1.373
1.373
1.373 | 0.959 1.138 1.009 1.005 1.005 1.053 1.065 1.242 1.277 1.282 1.282 1.242 1.277 1.282
 | 0.891
1.058
0.937
0.935
0.956
0.963
1.088
1.085
1.087
1.087
1.088
1.085
1.085 | 0.828 0.77 0.983 0.91 0.869 0.80 0.868 0.80 0.868 0.80 0.894 0.82 1.007 0.93 0.963 0.87 0.963 0.89 0.964 0.89 0.964 0.89 0.964 0.89 0.964 0.89 0.965 0.89 0.905 0.83 | 0.715
0.849
0.746
0.746
0.746
0.748
0.779
0.775
0.775
0.775
0.775
0.775
0.775 | 0.665
0.789
0.691
0.691
0.712
0.717
0.801
0.767
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0.767
0.767
0.767
0.801
0.740 | 0.618
0.733
0.640
0.640
0.662
0.666
0.741
0.710
0.710
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0.741
0.685
0.685
 | 0.574 0.534 0.633 0.549 0.593 0.549 0.593 0.549 0.614 0.618 0.591 0.685 0.684 0.658 0.668 0.668 0.668 0.668 0.668 0.668 0.668 0.668 0.669 0.695 | 0.496
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0.555
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0.518 | 0.428
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0.435
0.435
0.463
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0.513
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0.479 | 0.398
0.465
0.402
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0.428
0.433
0.498
0.474
0.474
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0.498
0.442
0.442
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457
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0.437
0.437
0.437
0.457
0.408
0.401 | 0.344
0.395
0.344
0.344
0.366
0.370
0.418
0.403
0.403
0.403
0.403
0.418
0.377
0.377 | 0.320
0.362
0.317
0.317
0.318
0.342
0.381
0.370
0.370
0.370
0.370
0.370
0.370
0.347
0.347 | 0.297
0.332
0.293
0.293
0.312
0.316
0.347
0.338
0.338
0.338
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0.338
0.338
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0.288
0.291
0.315
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 |
| Costs - Building Attachments crick Meters - Cost of Removal (COR) s Meters - Cost of Removal (COR) IP 30304 (CIS Mainframe Comp SW) IP 30304 (CIS Mainframe Comp HW) IP 39706 (Gas Modules) IP 39707 (Electric Modules) IP 39707 (Electric Medules) P 37000 (Electric Meters) P 37000 (Smart Electric Meters) IP 39707 (Computer - Fed) IP 39707 (Computer - Fed) IP 39707 (Computer - Fed) P 370001 (Computer - Fed) | 3 St. 15 4 Expense 5 Expense 6 Expense 7 MACRS 51 7 MACRS 51 9 MACRS 2010* 10 MACRS 2010* 11 MACRS 2010* 12 MACRS 2010* 13 MACRS 15/20* 14 MACRS 205 15 MACRS 205 16 MACRS 205 17 MACRS 205 | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 35
ADR-SYD 30
ADR-SYD 306 | 20
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0.347 | 0.297
0.332
0.293
0.293
0.312
0.316
0.347
0.338
0.338
0.338
0.347
0.320
0.316 | 0.276
0.302
0.270
0.270
0.288
0.291
0.315
0.308
0.308
0.308
0.308
0.315
0.294
0.291
 | 0.256
0.275
0.249
0.249
0.266
0.268
0.284
0.280
0.280
0.280
0.280
0.280
0.284
0.270
0.268 | 0.237
0.249
0.229
0.229
0.244
0.245
0.255
0.253
0.253
0.253
0.253
0.255
0.263
0.263
0.263
0.263
0.263 | 0.204
0.209
0.197
0.197
0.208
0.213
0.212
0.212
0.212
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0.212
0.213
0.208
0.208
0.208 | 0.120
0.121
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0.122
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 |
| Costs - Building Attachments ctric Meters - Cost of Removal (COR) s Meters - Cost of Removal (COR) 19 30304 (CIS Mainframe Comp SW) 19 39104 (CIS Mainframe Comp HW) 19 39706 (Gas Modules) 19 39707 (Electric Modules) 19 39707 (Electric Modules) 29 37000 (Electric Meters) 19 37000 (Smart Electric Meters) 19 37000 (Smart Electric Meters) 19 39707 (Computer - Fed) 19 39707 (Computer - Fed) 19 370701 (Computer - Fed) 19 370001 (Computer - Fed) | 3 St. 15 4 Expense 5 Expense 6 Expense 7 MACRS 51 7 MACRS 51 9 MACRS 2010* 10 MACRS 2010* 11 MACRS 2010* 12 MACRS 2010* 13 MACRS 15/20* 14 MACRS 205 15 MACRS 205 16 MACRS 205 17 MACRS 205 | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 35
ADR-SYD 30
ADR-SYD 306 | 20
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20
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20
27 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374
1.414
1.414
1.424
1.374
1.414
1.414
1.414
1.414
1.424 | 1.032
1.225
1.087
1.080
1.132
1.144
1.335
1.373
1.373
1.380
1.380
1.335
1.373
1.373
1.373 | 0.959
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1.242
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1.277
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1.282
 | 0.881
1.058
0.937
0.935
0.956
0.963
1.085
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1.085 | 0.828 0.77 0.983 0.91 0.869 0.80 0.868 0.80 0.868 0.82 0.894 0.82 0.894 0.82 0.994 0.82 0.9963 0.87 0.963 0.87 0.963 0.89 0.964 0.89 0.964 0.89 0.996 0.84 | 0.715 0.849 0.746 0.746 0.746 0.748 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.748 | 0.665
0.789
0.691
0.691
0.712
0.717
0.801
0.767
0.767
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0.721
0.740 | 0.618
0.733
0.640
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0.741
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0.685
0.668
 | 0.574 0.534 0.633 0.549 0.593 0.549 0.593 0.549 0.593 0.549 0.614 0.594 0.618 0.591 0.685 0.684 0.668 0.688 0.688 0.688 0.688 0.688 0.688 0.688 0.638 0.635 0.605 0.635 0.655 0.651 0.551 | 0.496
0.587
0.508
0.508
0.554
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0.640
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0.547 | 0.544
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0.501
0.506
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0.518 | 0.428
0.503
0.435
0.435
0.463
0.468
0.542
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0.542
0.479
0.468 | 0.398
0.465
0.402
0.402
0.428
0.433
0.498
0.474
0.474
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0.498
0.442
0.433
0.442
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457
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0.408 | 0.344
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0.418
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0.377
0.370 | 0.320
0.362
0.317
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0.318
0.342
0.381
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0.370
0.347
0.342
0.347 | 0.297
0.332
0.293
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0.320
0.316 | 0.276
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0.291
 | 0.256
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0.270
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0.263 | 0.204
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0.121 | 0.059
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 |
| Costs - Building Attachments ctrick Meters - Cost of Removal (COR) s 39700 (Electric Medules) p 39700 (Electric Medules) p 39700 (Sentic Meters) p 39700 (Sentic Meters) p 39700 (Computer - Fed) p 39707 (Computer - Fed) p 39707 (Computer - Fed) p 3970001 (Computer - Fed/State) p 397000 (Spounder - Fed/State) p 3970001 (Computer - Fed/State) | 3 SL 15 Expense 5 Expense 6 SL 3* 7 MACRS 5* 8 MACRS 15/20* 9 MACRS 20/10* 10 MACRS 20/10* 11 MACRS 20/10* 12 MACRS 20/10* 13 MACRS 15/20* 14 MACRS 15/20* 15 MACRS 20/5* 16 MACRS 20/5* 17 MACRS 20/5* 18 MACRS 20/5* | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 6
ADR-SYD 35
ADR-SYD 30
ADR-SYD 30 | 20
15
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20
20 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374
1.414
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1.424
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1.424
1.424
1.424
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1.424 | 1.032
1.225
1.087
1.080
1.080
1.132
1.144
1.335
1.373
1.380
1.335
1.373
1.380
1.373
1.380
1.380
1.385 | 0.959 1.138 1.009 1.005 1.065 1.065 1.242 1.277 1.282 1.242 1.277 1.282 1.242 1.277 1.282 1.242 1.277
 | 0.891
1.058
0.937
0.935
0.956
0.963
1.085
1.085
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1.087
1.087
1.085
1.085
1.085 | 0.828 0.77
0.983 0.91
0.869 0.800
0.868 0.80
0.868 0.80
0.868 0.82
0.894 0.82
0.894 0.82
0.963 0.89
0.963 0.89
0.964 0.88
0.964 0.88
0.964 0.89
0.964 0.89
0.965 0.83
0.965 0.83
0.965 0.83
0.965 0.83
0.965 0.83
0.965 0.83 | 0.715
0.849
0.746
0.746
0.748
0.748
0.779
0.775
0.775
0.775
0.775
0.775
0.775
0.775
0.775
0.775 | 0.665
0.789
0.691
0.691
0.712
0.717
0.767
0.767
0.767
0.767
0.767
0.801
0.740
0.721
0.721 | 0.618
0.733
0.640
0.640
0.662
0.666
0.741
0.710
0.710
0.710
0.710
0.741
0.685
0.688
0.688
 | 0.574 0.534 0.633 0.549 0.593 0.549 0.614 0.588 0.593 0.549 0.618 0.591 0.685 0.694 0.658 0.668 | 0.496
0.587
0.508
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0.547
0.640
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0.600
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0.547
0.547
0.560
0.547 | 0.544
0.470
0.470
0.501
0.506
0.590
0.555
0.555
0.555
0.555
0.590
0.518
0.506
0.518 | 0.428
0.503
0.435
0.435
0.463
0.468
0.542
0.513
0.513
0.513
0.513
0.542
0.479
0.468
0.479 | 0.398
0.465
0.402
0.402
0.428
0.433
0.498
0.474
0.474
0.474
0.474
0.498
0.442
0.433
0.442
0.433
0.443
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457
0.437
0.437
0.437
0.437
0.457
0.408
0.401
0.408 | 0.344
0.395
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0.344
0.370
0.418
0.403
0.403
0.403
0.403
0.403
0.418
0.377
0.377
0.377
0.377 | 0.320
0.362
0.317
0.317
0.318
0.342
0.381
0.370
0.370
0.370
0.370
0.370
0.347
0.347
0.342
0.342 | 0.297
0.332
0.293
0.293
0.316
0.347
0.338
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0.338
0.338
0.347
0.320
0.316
0.320 | 0.276
0.302
0.270
0.270
0.288
0.291
0.315
0.308
0.308
0.308
0.308
0.315
0.294
0.294
 | 0.256
0.275
0.249
0.249
0.266
0.268
0.284
0.280
0.280
0.280
0.280
0.270
0.268
0.270 | 0.237
0.249
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0.255
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0.253
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0.246
0.246 | 0.204
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0.197
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0.213
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0.208
0.208 | 0.120
0.121
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0.118
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 |
| Costs - Building Attachments trick Meters - Cost of Removal (COR) Meters - Cost of Removal (COR) 9 30304 (CIS Maintfame Comp SW) 9 39704 (CIS Maintfame Comp HW) 9 39706 (Gas Modules) 9 39707 (Electric Modules) 9 39708 (Networks) 9 37000 (Electric Meters) 9 37000 (Smart Electric Meters) 9 37001 (Gompter - Fed) 9 39707 (Computer - Fed) 9 39707 (Computer - Fed) 9 397001 (Computer - Fed/State) 9 370001 (Computer - Fed/State) 9 370001 (Computer - Fed/State) 9 370001 (Computer - Fed/State) 9 397006 (Computer - Fed/State) 9 397006 (Computer - Fed/State) | 3 SL 15 Expense 5 Expense 6 SL 3* 7 MACRS 5* 8 MACRS 15/20* 9 MACRS 20/10* 10 MACRS 20/10* 11 MACRS 20/10* 12 MACRS 20/10* 13 MACRS 15/20* 14 MACRS 15/20* 15 MACRS 20/5* 16 MACRS 20/5* 17 MACRS 20/5* 18 MACRS 20/5* | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 35
ADR-SYD 35
ADR-SYD 30
ADR-SYD 30 | 20
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15
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20
20
20 | | | | | 1.051
1.255
1.133
1.123
1.158
1.172
1.374
1.414
1.414
1.424
1.374
1.414
1.424
1.424
1.414
1.414 | 1.032
1.225
1.087
1.080
1.132
1.144
1.335
1.373
1.373
1.380
1.380
1.335
1.373
1.373
1.373 | 0.959
1.138
1.009
1.005
1.053
1.065
1.242
1.277
1.277
1.282
1.242
1.242
1.277
1.277
1.277
 | 0.891
1.058
0.937
0.935
0.956
0.963
1.085
1.085
1.087
1.087
1.087
1.085
1.085
1.085 | 0.828 0.77 0.983 0.91 0.869 0.80 0.868 0.80 0.868 0.82 0.894 0.82 0.894 0.82 0.994 0.82 0.9963 0.87 0.963 0.87 0.963 0.89 0.964 0.89 0.964 0.89 0.996 0.84 | 0.715
0.849
0.746
0.746
0.748
0.748
0.779
0.775
0.775
0.775
0.775
0.775
0.775
0.775
0.775
0.775 | 0.665
0.789
0.691
0.691
0.712
0.717
0.801
0.767
0.767
0.767
0.767
0.801
0.721
0.740 | 0.618
0.733
0.640
0.640
0.662
0.666
0.741
0.710
0.710
0.710
0.710
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0.685
0.688
0.688
 | 0.574 0.534 0.633 0.549 0.593 0.549 0.593 0.549 0.593 0.549 0.614 0.594 0.618 0.591 0.685 0.684 0.668 0.688 0.688 0.688 0.688 0.688 0.688 0.688 0.638 0.635 0.605 0.635 0.655 0.651 0.551 | 0.496
0.587
0.508
0.508
0.554
0.541
0.547
0.640
0.600
0.600
0.600
0.600
0.600
0.547 | 0.544
0.470
0.470
0.501
0.506
0.590
0.555
0.555
0.555
0.555
0.555
0.518 | 0.428
0.503
0.435
0.435
0.463
0.468
0.542
0.513
0.513
0.513
0.513
0.542
0.479
0.468 | 0.398
0.465
0.402
0.402
0.428
0.433
0.498
0.474
0.474
0.474
0.474
0.498
0.442
0.433
0.442
0.433
0.443
 | 0.370
0.429
0.372
0.372
0.396
0.401
0.457
0.437
0.437
0.437
0.437
0.408
0.401
0.408 | 0.344
0.395
0.344
0.344
0.366
0.370
0.418
0.403
0.403
0.403
0.403
0.403
0.418
0.377
0.370 | 0.320
0.362
0.317
0.317
0.318
0.342
0.381
0.370
0.370
0.370
0.370
0.370
0.347
0.342
0.347 | 0.297
0.332
0.293
0.293
0.312
0.316
0.347
0.338
0.338
0.338
0.347
0.320
0.316 | 0.276
0.302
0.270
0.270
0.288
0.291
0.315
0.308
0.308
0.308
0.308
0.315
0.294
0.291
 | 0.256
0.275
0.249
0.249
0.266
0.268
0.284
0.280
0.280
0.280
0.280
0.280
0.284
0.270
0.268 | 0.237
0.249
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0.229
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0.253
0.253
0.253
0.255
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0.245 | 0.204
0.209
0.197
0.197
0.208
0.213
0.212
0.212
0.212
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0.212
0.212
0.213
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0.208 | 0.120
0.121
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 |
| Costs - Building Attachments trick Meters - Cost of Removal (COR) Meters - Cost of Removal (COR) P 9 30304 (CIS Mainframe Comp SW) P 39104 (CIS Mainframe Comp HW) P 39104 (CIS Mainframe Comp HW) P 39104 (CIS Mainframe Comp HW) P 39107 (Electric Modules) P 39707 (Electric Modules) P 39107 (Smart Electric Meters) P 39100 (Smart Electric Meters) P 30100 (Smart Electric Meters) P 30100 (Smart Electric Meters) P 30100 (Computer - Fed) P 39100 (Computer - Fed) P 30100 (Computer - Fed/State) P 30100 (Computer - Fed/State) P 39106 (Computer - Fed/State) P 39106 (Computer - Fed/State) | 3 SL 15 Expense 5 Expense 6 SL 3" 7 MACRS 5" 8 MACRS 15/20" 9 MACRS 20/10" 10 MACRS 20/10" 11 MACRS 20/10" 12 MACRS 20/10" 13 MACRS 15/20" 14 MACRS 20/5" 15 MACRS 20/5" 16 MACRS 20/5" 17 MACRS 20/5" 18 MACRS 15/5" | SL 3
SL 15
Expense
Expense
SL 3
ADR-SYD 36
ADR-SYD 30
ADR-SYD 30 | 20
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20 | 2005-2013 | 2011-2020 | BVBD (2005) | BVDP (2008) | 1.051
1.255
1.133
1.123
1.158
1.172
1.374
1.414
1.424
1.424
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1.424
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1.424
1.424 | 1.032
1.225
1.087
1.080
1.080
1.132
1.144
1.335
1.373
1.380
1.335
1.373
1.380
1.373
1.380
1.380
1.385 | 0.959
1.138
1.009
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1.242
1.277
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1.242
1.277
1.277
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1.282
1.282
1.242
1.242
1.242 | 0.891 1.058 0.937 0.935 0.956 0.963 1.088 1.085 1.087 1.087 1.085 1.085 1.085 1.085 1.085 1.085 1.085 1.085 1.085 | 0.828 0.77
0.893 0.79
0.898 0.80
0.898 0.80
0.898 0.80
0.898 0.80
0.898 0.82
0.894 0.82
0.994 0.83
0.994 0.89
0.994 0.89
1.007 0.99
0.994 0.89
0.905 0.83
0.909 0.86
0.909 0.86
0.900 0.86
0.900 0.86
0.900 0.86
0.900 0.86
0.900 0.86
0.900 | 0.715 0.849 0.746 0.746 0.746 0.748 0.779 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.778 0.778 0.778 0.778 0.778 0.778 0.748 | 0.665
0.789
0.691
0.691
0.712
0.717
0.767
0.767
0.767
0.767
0.767
0.760
0.740
0.721
0.740
0.721 | 0.618
0.733
0.640
0.640
0.662
0.666
0.741
0.710
0.710
0.710
0.710
0.741
0.685
0.688
0.688
0.688
0.688 | 0.574 0.534 0.684 0.6861 0.533 0.5493 0.5494 0.651 0.561 0.561 0.661 0.661 0.661 0.661 0.661 0.661 0.665 0.6 | 0.496
0.587
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Costs - Building Attachments ctric Meters - Cost of Removal (COR) s Meters - Cost of Removal (COR) p 3004 (CIS Mainframe Comp SW) p 39104 (CIS Mainframe Comp HW) p 39706 (Gas Modules) p 39706 (Telectric Modules) p 39707 (Electric Modules) p 39708 (Patron Company (Patron Company	3 SL 15 Expense 5 Expense 6 SL 3" 7 MACRS 5" 8 MACRS 15/20" 9 MACRS 20/10" 10 MACRS 20/10" 11 MACRS 20/10" 12 MACRS 20/10" 13 MACRS 15/20" 14 MACRS 20/5" 15 MACRS 20/5" 16 MACRS 20/5" 17 MACRS 20/5" 18 MACRS 15/5"	SL 3 SL 15 Expense Expense SL 3 ADR-SYD 36 ADR-SYD 30 ADR-SYD 30	20 15 15 20 20 27 27 27 20 20 20 20 27 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20	2005-2013		(152,092) \$	(189,471) \$	1.051 1.255 1.133 1.123 1.158 1.172 1.374 1.414 1.424 1.374 1.414 1.424 1.374 1.414 1.424 1.374 1.374	1.032 1.225 1.087 1.080 1.132 1.144 1.335 1.373 1.373 1.380 1.380 1.380 1.380 1.380 1.380 1.380 1.380 1.380 1.380 1.380	0.959 1.138 1.009 1.009 1.005 1.053 1.065 1.242 1.277 1.282 1.282 1.242 1.277 1.277 1.282 1.282 1.282 1.242 1.242 1.242	0.891 1.058 0.937 0.935 0.956 0.963 1.088 1.085 1.087 1.087 1.085 1.085 1.085 1.085 1.085 1.085 1.085 1.085 1.085	0.828 0.77 0.893 0.91 0.896 0.80 0.808 0.20 0.888 0.62 0.894 0.82 0.994 0.82 0.995 0.83 0.996 0.84 0.996 0.89 0.996 0.89 0.996 0.89 0.996 0.89 0.996 0.89 0.996 0.89 0.996 0.89 0.996 0.89 0.996 0.88 0.996 0.88 0.996 0.88	0.715 0.849 0.746 0.746 0.746 0.746 0.779 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.778 0.7748 0.775 0.748 0.779 0.748	0.665 0.789 0.681 0.691 0.712 0.717 0.801 0.767 0.767 0.767 0.801 0.721 0.721 0.721 0.721 0.721	0.618 0.733 0.640 0.640 0.662 0.666 0.741 0.710 0.710 0.710 0.710 0.741 0.685 0.688 0.688 0.688	0.574 0.534 0.881 0.593 0.583 0.549 0.614 0.584 0.618 0.593 0.614 0.584 0.618 0.593 0.685 0.648 0.658 0.648 0.658 0.648 0.658 0.648 0.658 0.648 0.658 0.649 0.658 0.649 0.659 0.659 0.635 0.694 0.635 0.694	0.496 0.587 0.508 0.508 0.508 0.547 0.840 0.600 0.600 0.600 0.600 0.600 0.547 0.550 0.547 0.560 0.547	0.544 0.470 0.501 0.506 0.590 0.555 0.555 0.555 0.555 0.565 0.518 0.506 0.518 0.506 0.518	0.428 0.503 0.435 0.435 0.468 0.468 0.542 0.513 0.513 0.513 0.513 0.513 0.468 0.479 0.468 0.468	0.398 0.465 0.402 0.402 0.428 0.433 0.498 0.474 0.474 0.474 0.474 0.498 0.442 0.433 0.442 0.433 0.442	0.370 0.429 0.372 0.372 0.372 0.396 0.401 0.457 0.437 0.437 0.437 0.437 0.408 0.401 0.408 0.401 0.409 0.401	0.344 0.395 0.344 0.346 0.366 0.370 0.418 0.403 0.403 0.403 0.403 0.403 0.477 0.377 0.377 0.377	0.320 0.362 0.367 0.317 0.317 0.317 0.338 0.342 0.381 0.370 0.370 0.370 0.370 0.370 0.347 0.342 0.347 0.342 0.342	0.297 0.332 0.293 0.293 0.312 0.316 0.347 0.338 0.338 0.338 0.338 0.320 0.316 0.320 0.316	0.276 0.302 0.270 0.270 0.270 0.278 0.288 0.291 0.315 0.308 0.308 0.308 0.315 0.291 0.291 0.291 0.294 0.291 0.294 0.291	0.256 0.275 0.249 0.249 0.266 0.266 0.280 0.280 0.280 0.280 0.288 0.270 0.268 0.270 0.268 0.270 0.268	0.237 0.249 0.229 0.229 0.224 0.245 0.255 0.253 0.253 0.253 0.253 0.253 0.253 0.253 0.253 0.253 0.255 0.246 0.245 0.245	0.204 0.209 0.197 0.197 0.208 0.208 0.213 0.212 0.212 0.212 0.212 0.212 0.213 0.208 0.208 0.208 0.208 0.208 0.208	0.120 0.121 0.118 0.118 0.121 0.121 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.121 0.121 0.121 0.121 0.121	0.059 0.059 0.058 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059
e Costs - Building Attachments ctrick Meters - Cost of Removal (COR) s Meters - Cost of Removal (COR) 19 8 Meters - Cost of Removal (COR) 19 83014 (CIS Mainframe Comp SW) 19 39104 (CIS Mainframe Comp HW) 19 39107 (Sizetic Modules) 19 39707 (Electric Modules) 19 39707 (Sizetic Meters) 19 37000 (Electric Meters) 19 37000 (Sizetic Meters) 19 37000 (Sizetic Meters) 19 37007 (Computer - Fed) 19 39707 (Computer - Fed) 19 39707 (Computer - Fed) 19 39707 (Computer - Fed) 19 39706 (Computer - Fed) 19 370004 (Computer - Fed) 19 37006 (Computer - Fed) 19 37006 (Computer - Fed) 11 39706 (Computer - Fed) 12 30706 (Computer - Fed) 13 30706 (Computer - Fed) 14 30706 (Computer - Fed) 15 30706 (Computer - Fed) 16 30706 (Computer - Fed) 17 30706 (Computer - Fed) 18 30706 (Computer - Fed)	3 SL 15 Expense 5 Expense 6 SL 3" 7 MACRS 5" 8 MACRS 15/20" 9 MACRS 20/10" 10 MACRS 20/10" 11 MACRS 20/10" 12 MACRS 20/10" 13 MACRS 15/20" 14 MACRS 20/5" 15 MACRS 20/5" 16 MACRS 20/5" 17 MACRS 20/5" 18 MACRS 15/5"	SL 3 SL 15 Expense Expense SL 3 ADR-SYD 36 ADR-SYD 30 ADR-SYD 30	20 15 15 20 20 27 27 27 20 20 20 20 27 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20	2005-2013 - \$		(152,092) \$ PVRR (2005)		1.051 1.255 1.133 1.123 1.158 1.172 1.374 1.414 1.424 1.374 1.414 1.424 1.424 1.374 1.414 1.424 1.374 1.374 1.374	1.022 1.225 1.087 1.080 1.087 1.080 1.132 1.144 1.325 1.373 1.380 1.380 1.380 1.393 1.373 1.380 1.395 1.373 1.390 1.300	0.959 1.138 1.009 1.005 1.005 1.005 1.005 1.005 1.005 1.022 1.242 1.277 1.282 1.282 1.242 1.277 1.282 1.282 1.242 1.242 1.242 1.242 1.242 1.242	0.891 1.058 0.937 0.935 0.956 0.963 1.088 1.085 1.085 1.087 1.085 1.085 1.085 1.085 1.085 1.085 1.085 1.085 1.085	0.828 0.77 0.893 0.79 0.898 0.89 0.898 0.89 0.898 0.89 0.894 0.89 0.894 0.89 0.993 0.87 0.993 0.87 0.993 0.89 0.994 0.89 0.994 0.89 0.995 0.89 0.995 0.89 0.995 0.89 0.995 0.88 0.995 0.89 0.995 0.88 0.995	0.715 0.849 0.746 0.746 0.746 0.748 0.779 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.748 0.775 0.748 0.775 0.748 0.775 0.748 0.775 0.748 0.779 0.748 0.779 0.748 0.779 0.748 0.779 0.748 0.779 0.749 0.749 0.779 0.749	0.665 0.789 0.691 0.691 0.712 0.717 0.801 0.767 0.767 0.767 0.767 0.767 0.767 0.721 0.721 0.721 0.721 0.721 0.721 0.721 0.721 0.721 0.721	0.618 0.733 0.640 0.640 0.662 0.666 0.741 0.710 0.710 0.710 0.710 0.741 0.785 0.688 0.688 0.688 0.688 0.688	0.574 0.534 0.881 0.533 0.593 0.594 0.693 0.544 0.614 0.584 0.618 0.584 0.618 0.648 0.658 0.648 0.658 0.648 0.658 0.648 0.658 0.648 0.658 0.689 0.658 0.689 0.658 0.689 0.658 0.689 0.658 0.689 0.658 0.689 0.658 0.689 0.659 0.599 0.591 0.591	0.496 0.587 0.508 0.508 0.508 0.547 0.640 0.600 0.600 0.600 0.600 0.600 0.640 0.547 0.561 0.547 0.561 0.547	0.544 0.470 0.470 0.501 0.506 0.590 0.555 0.555 0.555 0.555 0.555 0.555 0.590 0.518 0.506 0.518 0.506 0.518 0.506	0.428 0.503 0.435 0.435 0.463 0.468 0.542 0.513 0.513 0.513 0.513 0.542 0.479 0.468 0.490 0.468 0.490 0.468	0.398 0.465 0.402 0.402 0.402 0.428 0.433 0.498 0.474 0.474 0.474 0.474 0.498 0.442 0.433 0.442 0.433 0.443 0.433 0.443 0.433	0.370 0.429 0.372 0.372 0.376 0.396 0.401 0.457 0.437 0.437 0.437 0.437 0.497 0.401 0.401 0.401 0.409 0.401	0.344 0.394 0.344 0.344 0.344 0.344 0.348 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.370	0.320 0.362 0.362 0.317 0.317 0.317 0.317 0.378 0.381 0.370 0.370 0.370 0.370 0.370 0.370 0.342 0.342 0.342 0.348 0.342 0.348	0.297 0.322 0.332 0.293 0.293 0.293 0.293 0.316 0.347 0.338 0.338 0.338 0.338 0.338 0.347 0.320 0.316 0.320 0.316 0.320 0.316 0.320 0.316 0.320 0.316	0.276 0.302 0.270 0.270 0.288 0.291 0.315 0.308 0.308 0.308 0.308 0.308 0.308 0.294 0.294 0.291 0.294 0.291 0.294 0.291 0.294 0.291 0.294	0.256 0.275 0.249 0.249 0.266 0.268 0.284 0.280 0.280 0.280 0.280 0.280 0.270 0.268 0.270 0.268 0.270 0.268 0.270 0.268 0.270 0.268 0.270 0.268	0.237 0.249 0.229 0.229 0.229 0.244 0.245 0.255 0.253 0.253 0.253 0.253 0.253 0.246 0.245 0.246 0.245 0.246 0.	0.204 0.209 0.197 0.197 0.208 0.208 0.213 0.212 0.212 0.212 0.212 0.213 0.208 0.208 0.208 0.208 0.208 0.208 0.208 0.208 0.208 0.208	0.120 0.121 0.118 0.118 0.118 0.121 0.122 0.121	0.059 0.059 0.058 0.058 0.058 0.058 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059
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 |
e Costs - Building Attachments ctrick Meters - Cost of Removal (COR) is Meters - Cost of Removal (COR) is Meters - Cost of Removal (COR) is Meters - Cost of Removal (COR) if 93034 (CIS Mainframe Comp SW) if 93034 (CIS Mainframe Comp HW) if 93076 (CIS Modules) if 93070 (Computer - Fed) if 9	3 SL 15 Expense 5 Expense 6 SL 3" 7 MACRS 5" 8 MACRS 15/20" 9 MACRS 20/10" 10 MACRS 20/10" 11 MACRS 20/10" 12 MACRS 20/10" 13 MACRS 15/20" 14 MACRS 20/5" 15 MACRS 20/5" 16 MACRS 20/5" 17 MACRS 20/5" 18 MACRS 15/5"	SL 3 SL 15 Expense Expense SL 3 ADR-SYD 36 ADR-SYD 30 ADR-SYD 30	20 15 15 20 20 27 27 27 20 20 20 20 27 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20	2005-2013 - \$	- \$	(152,092) \$ PVRR (2005) 916,297 514,713 1,266,127	(189,471) \$	1.051 1.255 1.133 1.123 1.158 1.172 1.374 1.414 1.424 1.374 1.414 1.424 1.374 1.414 1.424 1.375 1.375	1.022 1.225 1.087 1.0807 1.0807 1.0807 1.0807 1.0807 1.132 1.144 1.35 1.373 1.380 1.335 1.373 1.380 1.335 1.373 1.335 1.335 1.335 2.006 - \$ 2.006	0.959 1.138 1.138 1.005 1.005 1.053 1.065 1.065 1.065 1.242 1.277 1.282 1.242 1.277 1.282 1.242 1.242 1.242 1.242 1.242 1.242 1.242 1.242 1.242 1.242 1.242 1.242 1.252 2007	0.891 1.058 0.937 0.935 0.935 0.966 0.963 1.088 1.085 1.087 1.087 1.088 1.085 1.085 1.087 1.088 1.085 1.085 1.085 1.085 1.087 1.087 1.087 1.088 1.088 1.088 1.088 1.088	0.828 0.77 0.893 0.91 0.898 0.80 0.808 0.80 0.808 0.82 0.894 0.62 0.894 0.62 0.894 0.62 0.994 0.89 0.994 0.89 0.994 0.89 0.994 0.89 0.994 0.89 0.994 0.88 0.996 0.84 0.909 0.85 0.905 0.83 0.909 0.86 0.906 0.88 0.906 0.88 0.906 0.88 0.905 0.88	0.715 0.849 0.746 0.746 0.746 0.748 0.779 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.778 0.778 0.778 0.778 0.748 0.779 0.748 2011 \$ 97.710 \$ \$ 31.307 \$ \$ 31.307 \$ \$ \$ 10.846 \$ \$	0.665 0.789 0.6891 0.691 0.712 0.717 0.801 0.767 0.767 0.767 0.767 0.767 0.721 0.740 0.721 0.740 0.721 \$ 2012 \$ 2012 33,342 \$ 15,746 \$ 48,023 \$ \$ 48,023 \$	0.618 0.733 0.640 0.680 0.682 0.6862 0.6862 0.741 0.710 0.710 0.710 0.710 0.741 0.685 0.688 0.688 0.688 0.688 0.688	0.574 0.534 0.694 0.681 0.583 0.549 0.618 0.583 0.549 0.618 0.583 0.649 0.618 0.593 0.649 0.658 0.685 0.689 0.658 0.686 0.658 0.686 0.658 0.689 0.658 0.694 0.659 0.659 0.619 0.591 0.659 0.619 0.591 0.637 0.619 0.591	0.496 0.587 0.508 0.508 0.508 0.541 0.547 0.640 0.600 0.600 0.600 0.600 0.640 0.547 0.560 0.547 0.560 0.547 0.560 0.547 5.560 0.547 2016 \$ \$ - \$\$ \$ - \$\$ \$ 3,157 \$\$ \$ 3,174 \$\$	0.544 0.470 0.470 0.501 0.501 0.506 0.590 0.555 0.555 0.555 0.555 0.590 0.518 0.506 0.518 0.506 0.519 0.506 2017 - \$ 2017 5,612 \$ 2,735 \$ 30,085 \$	0.428 0.435 0.435 0.435 0.435 0.436 0.463 0.463 0.542 0.513 0.513 0.513 0.542 0.479 0.468 0.490 0.468 - \$ 2019 - \$ 2018 - \$ 2018 - \$	0.398 0.465 0.402 0.402 0.402 0.428 0.433 0.498 0.474 0.474 0.474 0.498 0.442 0.433 0.442 0.433 0.442 0.433 0.498 0.498 0.498 0.598 0.498 0.598 0.498 0.498 0.498 0.498 0.498 0.498 0.498 0.498 0.498 0.498 0.498 0.498 0.498	0.370 0.429 0.372 0.396 0.401 0.457 0.457 0.437 0.437 0.437 0.458 0.401 0.408 0.401 0.408 0.401 2020 - \$ 2020 1,960 \$	0.344 0.334 0.344 0.344 0.344 0.348 0.366 0.370 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.470 0.377 0.370 0.377 0.370 0.370 0.377 0.370	0.320 0.362 0.317 0.338 0.347 0.338 0.342 0.381 0.370 0.370 0.370 0.371 0.342 0.342 0.342 2022 - \$ 2022 - \$ 2022 1.650 \$	0.297 0.332 0.293 0.312 0.314 0.314 0.347 0.338 0.338 0.338 0.337 0.320 0.316 0.320 0.316 2023 - \$ 2023 1.550 \$ 2,21,40 \$	0.276 0.302 0.270 0.288 0.291 0.315 0.308 0.308 0.308 0.308 0.315 0.294 0.291 0.291 0.291 0.291 0.291 0.291 0.291 0.291 0.291 0.291 0.291 0.291 0.291 0.291 0.291 0.291	0.256 0.275 0.249 0.269 0.260 0.268 0.284 0.280	0.227 0.229 0.229 0.229 0.229 0.224 0.244 0.245 0.253 0.253 0.253 0.253 0.253 0.253 0.253 0.254 0.245	0.204 0.209 0.197 0.197 0.208 0.208 0.213 0.212 0.212 0.212 0.212 0.213 0.208	0.120 0.121 0.118 0.121 0.121 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.121	0.059 0.059 0.058 0.058 0.058 0.059
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Le Costs - Building Attachments etchric Meters - Cost of Removal (COR) as Meters - Cost of Removal (COR) as Meters - Cost of Removal (COR) as Meters - Cost of Removal (COR) MP 30304 (CIS Mainfame Comp SW) MP 30304 (CIS Mainfame Comp HW) MP 39706 (Gest Modules) MP 39707 (Electric Modules) MP 39707 (Electric Meters) DP 37000 (Electric Meters) DP 37000 (Smart Electric Meters) DP 37000 (Smart Electric Meters) DP 37000 (Computer - Fed) MP 39707 (Computer - Fed) MP 39707 (Computer - Fed) MP 39706 (Computer - Fed)	3 SL 15 Expense 5 Expense 6 SL 3" 7 MACRS 5" 8 MACRS 15/20" 9 MACRS 20/10" 10 MACRS 20/10" 11 MACRS 20/10" 12 MACRS 20/10" 13 MACRS 15/20" 14 MACRS 20/5" 15 MACRS 20/5" 16 MACRS 20/5" 17 MACRS 20/5" 18 MACRS 15/5"	SL 3 SL 15 Expense Expense SL 3 ADR-SYD 36 ADR-SYD 30 ADR-SYD 30	20 15 15 20 20 27 27 27 20 20 20 20 27 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20	2005-2013 . \$	- \$	(152,092) \$ PVRR (2005) 916,297 514,713 1,266,127	(189,471) \$ PVRR (2008) \$ \$ \$ \$ \$ \$	1.051 1.255 1.133 1.123 1.158 1.172 1.374 1.414 1.414 1.424 1.374 1.414 1.414 1.424 1.374	1 032 1 225 1 087 1 1080 1 1325 1 1373 1 1880 1 1335 1 1373 1 1880 1 1335 1 1373 1 1890 1 1305 1 130	0.959 1.138 1.009 1.005 1.005 1.053 1.053 1.085 1.242 1.277 1.282 1.282 1.242 1.277 1.282 1.242 2.07 4.6,945 6.1922 \$ 275,969 \$ 384,835 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.891 1.058 0.937 0.935 0.956 0.963 1.088 1.085 1.085 1.085 1.087 1.087 1.087 1.087 1.087 1.087 1.087 1.088 1.088 1.088 1.088 1.085 1.395 1.305	0 828 0.77 0 898 0.89 0 888 0.80 0 888 0.80 0 888 0.82 1.007 0.98	0.715 0.849 0.746 0.746 0.746 0.748 0.779 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.778 0.748 0.779 0.748	0.665 0.789 0.691 0.799 0.691 0.712 0.717 0.801 0.767 0.767 0.767 0.767 0.767 0.740 0.721 0.740 0.721 0.743 0.721 0.743 0.721 0.743 0.721 0.743 0.721 0.743 0.721 0.743 0.721 0.743 0.721 0.743 0.721 0.743 0.721 0.743 0.721	0.618 0.733 0.640 0.640 0.662 0.666 0.741 0.710 0.710 0.710 0.710 0.741 0.785 0.688 0.688 0.688 0.688 2013 - \$ 2013 - \$ 2013 - \$ 2013 - \$ 4 2013 - \$ 2014 - \$ 2015 - \$ 2015 - \$ 2016 - \$ 2017 - \$ 2018 - \$ 2	0.574 0.534 0.681 0.533 0.593 0.549 0.614 0.584 0.618 0.585 0.618 0.585 0.618 0.618 0.658 0.694 0.658 0.684 0.658 0.648 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.658 0.649 0.659 0.659 0.619 0.591 0.619 0.591 0.619 0.591 0.619 0.591 0.619 0.591 0.619 0.591	0.496 0.587 0.508 0.508 0.547 0.547 0.640 0.600 0.600 0.600 0.600 0.600 0.640 0.547 0.547 0.547 0.547 0.547 0.547 0.547 0.547 0.561 0.347 0.57 5.583 0.347 0.547 0	0.544 0.470 0.470 0.501 0.501 0.506 0.590 0.555 0.555 0.555 0.555 0.555 0.556 0.518 0.506 0.518 0.506 0.519 0.506	0.428 0.503 0.435 0.435 0.445 0.445 0.463 0.468 0.542 0.513 0.513 0.513 0.513 0.479 0.408 0.498 2018 - \$ 2018 5.266 \$ 29,548 \$ 37,338 \$	0.398 0.465 0.402 0.402 0.402 0.428 0.433 0.498 0.474 0.474 0.474 0.474 0.498 0.433 0.442 0.433 0.443 0.433 0.443 0.433 0.498 - \$ 2019 4.959 \$ 2,281 \$ 26,639 \$ 33,879 \$	0.370 0.429 0.372 0.396 0.401 0.457 0.401 0.457 0.437 0.437 0.437 0.437 0.449 0.401 0.408 0.401 0.408 0.401 0.408 0.401 0.408 0.401 0.408 0.401 0.408 0.401 0.408 0.401 0.408	0.344 0.366 0.344 0.366 0.370 0.418 0.403	0.320 0.362 0.317 0.338 0.347 0.338 0.342 0.381 0.370 0.370 0.370 0.370 0.370 0.370 0.347 0.347 0.342 2022 4,012 4,012 4,012 5,1651 1,630 5,1,651 5,27,294 \$	0.297 0.332 0.293 0.312 0.316 0.347 0.338 0.338 0.338 0.338 0.338 0.338 0.347 0.320 0.316 0.320 0.316 0.320 0.316 0.322 0.316 0.322 0.316 0.322 0.316 0.322 0.316 0.322 0.316 0.322 0.316 0.322 0.316 0.322 0.316 0.322 0.316	0.276 0.302 0.270 0.270 0.288 0.291 0.315 0.308	0.256 0.275 0.249 0.269 0.289 0.289 0.280 0.280 0.280 0.280 0.280 0.270 0.280 0.270 0.280 0.270 0.280 0.270 0.285 0.270 0.268 0.270 0.268 0.270 0.268 0.270 0.268 0.270 0.268 0.270 0.268 0.270 0.268 0.270 0.268 0.270 0.268	0.237 0.249 0.229 0.229 0.229 0.224 0.255 0.255 0.253 0.253 0.253 0.253 0.253 0.253 0.253 0.254 0.246 0.266	0.204 0.209 0.197 0.197 0.208 0.208 0.208 0.213 0.212 0.212 0.212 0.212 0.213 0.208	0.120 0.121 0.118 0.121 0.118 0.121 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.121	0.059 0.059 0.058 0.058 0.058 0.059
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3.275 3 | 0.891 1.058 0.937 0.935 0.955 0.955 0.965 1.088 1.085 1.087 1.088 1.085 1.087 1.088 1.085 1.087 1.088 1.085 1.087 1.088 1.085 1.087 1.087 1.088 1.080 2008 2008 2139 105 \$ 12 102,350 \$ 12 | 0.828 0.77 0.983 0.79 0.898 0.80 0.808 0.80 0.808 0.80 0.808 0.82 0.894 0.82 0.994 0.82 0.994 0.83 0.905 0.905 0.905 0.83 0.906 0.84 0.905 0.85 0.905 0.85 0.905 0.85 0.905 0.85 0.905 0.85 0.906 0.86 0.906 0.86 0.906 0.86 0.906 0.86 0.906 0.86 0.906 0.86 0.906 0.86 0.906 0.88 0.905 0.88 0.905 0.88 0.905 0.88 0.905 0.88 0.905 0.88 0.905 0.88 0.905 0.88 0.905 0.88 0.905 0.88 0.907 0.908 0.907 0.88 0.907 0.908 0.907 0.88 0.907 0. | 0.715 0.849 0.746 0.746 0.746 0.748 0.779 0.775 0.775 0.775 0.775 0.775 0.775 0.775 0.778 0.778 0.778 0.748 0.779 0.789 0.789 0.789 0.789 0.780 | 0.665 0.789 0.691 0.792 0.691 0.712 0.717 0.801 0.767 0.767 0.767 0.767 0.767 0.767 0.721 0.721 0.721 0.721 0.721 2012 - \$ 2012 - \$ 2012 - \$ 48.023 \$ 97,111 \$ | 0.618 0.733 0.640 0.686 0.686 0.761 0.771 0.7710 0.7710 0.7711 0.7710 0.7711 0.781 0.685 0.688 0.688 0.688 0.688 0.688 0.688 0.688 0.688 0.688 0.688 0.688 0.688 0.688 0.688 0.688 0.688 0.688
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 | 0.370 0.429 0.372 0.396 0.472 0.396 0.401 0.457 0.437 0.437 0.437 0.437 0.437 0.437 0.437 0.437 0.437 0.437 0.438 0.401 0.408 0.401 2020 - \$ 2020 4,643 \$ 1,960 \$ 2,062 \$ 28,665 \$ | 0.344 0.344 0.344 0.344 0.344 0.366 0.370 0.403 | 0.320 0.362 0.317 0.338 0.347 0.338 0.342 0.370 0.370 0.370 0.370 0.371 0.342 0.342 0.342 0.342 2022 4.012 1.630 \$\$ 27.294 \$\$ 4.999 \$\$ 2,031 \$\$ 4.999 \$\$ 2,031 \$\$ \$\$ 2,031 \$\$ | 0.297 0.332 0.293 0.312 0.316 0.347 0.338 0.338 0.337 0.338 0.337 0.336 0.320 0.316 0.320 0.316 0.320 0.316 0.322 0.321 0.322 0.322 0.316 0.322 0.323 0.322 0.323 0.322 0.323 0.322 0.323 0.322 0.323 0.322 0.323 0.322 0.323 | 0.276 0.302 0.270 0.288 0.291 0.315 0.308 0.308 0.308 0.308 0.315 0.294 0.291 0.294 0.291 0.294 0.291 2.294 0.291 0.294 0.291 0.295 0.308
0.308 | 0.256 0.275 0.249 0.269 0.294 0.266 0.288 0.284 0.280 0.280 0.280 0.280 0.280 0.280 0.280 0.280 0.280 0.283 0.270 0.268 0.270 | 0.229 0.229 0.229 0.229 0.229 0.224 0.244 0.245 0.255 0.253 0.253 0.253 0.253 0.253 0.254 0.246 0.245 0.246 0.245 0.245 0.246 0.245 0.245 0.246 0.245 0.245 0.246 0.245 0.245 0.246 0.245 0.265 0.3 \$ 1.001 \$ 1.001 \$ 1.005 \$ | 0.204 0.209 0.197 0.197 0.197 0.208 0.208 0.213 0.212 0.212 0.212 0.212 0.213 0.208 | 0.120 0.121 0.118 0.121 0.118 0.118 0.118 0.121 0.122 0.122 0.122 0.122 0.122 0.122 0.122 0.121 0.122 | 0.059 0.059 0.058 0.058 0.059
0.059 |

- Notes

 a PVRR profiles are defined based on the nature of the cost category and federal and state tax depreciation schedules. Further elaborated in Workpaper 7.
 b This PVRR table is a reference profile from workpapers of D.06-07-027 and D.09-03-26.
 c Book refers to the original terms of depreciation.
 d Numbers after CMP (Computing), EDP (Electric Data Processing), and GDP (Gas Data Processing) refer to different asset classes defined by PG&E.

Pacific Gas and Electric Company

Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013

WORKPAPER 4 - Projected Additional Tax Benefits in Support of Table 4

This workpaper examines different scenarios to calculate the projected additional tax benefits triggered by potential legislative changes that allow PG&E to classify SmartMeter as computers.

								SM Program Upgrade Funded Assets	n Upgrade Assets	e Funded
								Adopted as of 7/2017	Z 4	Not Fully Adopted
Scenario	Description		Description of Increment	of Increment	Calculated as:			Incremental Benefits in PVRR (2008)	Inc Be PVF	Incremental Benefits in PVRR (2008)
Scenario A Scenario B Scenario C	Elec and Gas not treated as computers Elec treated as computers for Fed Elec treated as computers for Fed & State		Electric for Federal Electric for State	<u>a</u>	Scenario A - Scenario B Scenario B - Scenario C	enario B enario C		\$ 12,402 \$	& &	10,296
Scenario A	Flectric & Gas Meters Not Treated as Computers							\$ 12,402	↔	10,296
	Actual Project Costs	Profile	Federal Tax	State Tax	Book		2005-2013	2011-2030		PVRR (2008)
	Smart Electric Meters	12	MACRS 20/10*	ADR-SYD 30	27	s	291,886		\$	332,549
	CIS Mainframe Comp SW	9	SL 3*	SL3	15	↔	20,768		↔	21,854
	CIS Mainframe Comp HW	7	MACRS 5*	ADR-SYD 6	15	⇔	2,285		⇔	2,339
	Electric Modules	6	MACRS 20/10*	ADR-SYD 30	20	ઝ	79,324		8	91,366
	Subtotal - Capital					↔	394,263	· \$	€	448,108
	Expense - Other	1	Expense	Expense	-	\$	16,787		8	15,304
	Subtotal - Capital					↔	16,787	\$	\$	15,304
	Subtotal					€	411,050	· •	€9	463,412
	Projected GRC / Program Costs	Profile	Federal Tax	State Tax	Book		2005-2013	2011-2030		PVRR (2008)
	Smart Electric Meters	12	MACRS 20/10*	ADR-SYD 30	27			4)	\$	31,654
	Electric Modules	6	MACRS 20/10*	ADR-SYD 30	20					3,942
	CIS Mainframe Comp HW	7	MACRS 5*	ADR-SYD 6	15			\$ 4,409	↔	2,911
	CIS Mainframe Comp SW	9	SL 3*	SL3	15			, \$	↔	i
	Software - Expensed (Book)	2	SL3	SL3	,					1
	Expenses - TOU Program Costs	~	Expense	Expense	•			\$ 176,178		63,814
	Expenses - T-24 PCT Program Costs	~	Expense	Expense					€	•
	Expenses - Other	_	Expense	Expense						10,000
	Subtotal					↔		\$ 264,927	s	112,322
	Total					\$	411,050	\$ 264,927	⇔	575,734

Pacific Gas and Electric Company
Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013
WORKPAPER 4 - Projected Additional Tax Benefits in Support of Table 4
Additional Paragraph 21 of Decision 17-05-013

Scenario B	WORKPAPER 4 - Flectric Meters Treated as Committees (For Federal only)	- Projected	i Additional lax	WORKPAPER 4 - Projected Additional Tax Benefits in Support of Table 4 ir Federal only)	ות סד ו able 4					
	(fine in case)	Profile	Federal Tax	State Tax	Book		2005-2013	2011-2030	PVRR (2008)	2008)
	Smart Electric Meters	16	MACRS 20/5*	ADR-SYD 30	27	↔	291,886	€	323	323,035
	CIS Mainframe Comp SW	9	SL 3*	SL3	15	↔	20,768	€9	7	21,854
	CIS Mainframe Comp HW	7	MACRS 5*	ADR-SYD 6	15	↔	2,285	€9		2,339
	Electric Modules	4	MACRS 20/5*	ADR-SYD 30	20	↔	79,324	€9	6	90,114
	Subtotal - Capital					₩	394,263 \$.	437	437,342
	Exnanse - Other	-	Fxnense	Expense	,	€.	16 787	U	7	15.304
	Suptotal - Capital	-	222	22	ı	σ	16,787 \$	1	1	15 304
	Subtruita					9			<u>-</u>	t 00,'0
	Subtotal					₩	411,050 \$	↔	452	452,645
	Projected GRC / Program Costs	Profile	Federal Tax	State Tax	Book		2005-2013	2011-2030	PVRR (2008)	2008)
	Smart Electric Meters	16	MACRS 20/5*	ADR-SYD 30	27		\$		3(30,188
	Electric Modules	4	MACRS 20/5*	ADR-SYD 30	20		₩		.,	3,772
	CIS Mainframe Comp HW	7	MACRS 5*	ADR-SYD 6	15		₩	4,409 \$		2,911
	CIS Mainframe Comp SW	9	SL 3*	SL3	15		↔	٠		,
	Software - Expensed (Book)	7	SL 3	SL3			↔			
	Expenses - TOU Program Costs	_	Expense	Expense			↔	176,178 \$	9	63,814
	Expenses - T-24 PCT Program Costs	_	Expense	Expense	1		↔	()		
	Expenses - Other	_	Expense	Expense			S	_	1	10,000
	Subtotal					↔	\$	264,927 \$	110	110,686
	Total					¥	411 050 \$	\$ 400 790	56.	563 332
Scenario C	Electric Meters Treated as Computers (For Federal and State)	ate)					1	-		
		Profile	Federal Tax	State Tax	Book		2005-2013	2011-2030	PVRR (2008)	2008)
	Smart Electric Meters	17	MACRS 20/5*	ADR-SYD 30/6	27	₩	291,886	€	316	315,015
	CIS Mainframe Comp SW	9	SL 3*	SL3	15	↔	20,768	€	2	21,854
	CIS Mainframe Comp HW	7	MACRS 5*	ADR-SYD 6	15	↔	2,285	€9	.,	2,339
	Electric Modules	15	MACRS 20/5*	ADR-SYD 30/6	20	↔	79,324	€9	88	88,492
	Subtotal - Capital					₩	394,263 \$	· •	427	427,700
	Expense - Other	-	Expense	Expense	ı	↔	16,787	€	7	15,304
	Subtotal - Capital					↔	16,787 \$	٠	7	15,304
	Subtotal					€	411,050 \$	↔	4	443,004
	Projected GRC / Program Costs	Profile	Federal Tax	State Tax	Book		2005-2013	2011-2030	PVRR (2008)	2008)
	Smart Electric Meters	17	MACRS 20/5*	ADR-SYD 30/6	27		₩	\$ 52,625	25	29,612
	Electric Modules	15	MACRS 20/5*	ADR-SYD 30/6	20		↔		.,	3,695
	CIS Mainframe Comp HW	7	MACRS 5*	ADR-SYD 6	15		↔	4,409 \$.,	2,911
	CIS Mainframe Comp SW	9	SL 3*	SL3	15		₩	₽		
	Software - Expensed (Book)	2	SL 3	SL3			₩			
	Expenses - TOU Program Costs	_	Expense	Expense	1		↔	176,178 \$	9	63,814
	Expenses - T-24 PCT Program Costs	_	Expense	Expense			()			. :
	Expenses - Other	_	Expense	Expense		•	₩ •)	10,000
	Subtotal					€	s)	264,927 \$	11(110,033
	Total					\$	411,050 \$	264,927	553	553,036

1 Pacific Gas and Electric Company
2 Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compilance with Ordering Paragraph 21 of Decision 17-05-013
3 WORKPAPER 5 - PVRR Financial Assumptions

		2005		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015+	2016
Notes	Financial Assumptions													
	Present Value to End of: Module Life for Terminal Value	2008 20 years												
	WACC First meter installed:	7.60% Sep-06			T # 5	For changes to items indicated in pink the macro needs to be re-run to update the PVRR factors	ms indicated in 5 be re-run R factors	pink						
	Cash flow for NPV (1=BOP, 2=Mid Year, 3=EOP)	2 Mid Year	ā											
	Federal Income Tax Rate State Income Tax Rate (Net of Fed Benefit) Effective Corporate State / Federal Tax Rate	35.00% 5.75% 40.75%												
	Property Taxes Insurance Total	0.70% 0.30% 1.00%	1.00%	1.00%	1.00%	1.10%	1.18%	1.16%	1.13%	1.12%	1.13%	1.13%	1.13%	1.13%
	Extend Bonus Depreciation through 2019	TRUE	(201	5 = 50%, 201	6 = 50%, 201	(2015 = 50%, 2016 = 50%, 2017 = 50%, 2018 = 40%, 2019 = 30%)	40%, 2019 = 30	(%0						
	Adopted Tax Scenario	Scenario A		-										
	Replace PTR Program costs with TOU Program costs	TRUE												

2030 2029 2028 2027 2026 2025 2024 2023 2022 2021 2020 2019 2018 2017 1 Pacific Gas and Electric Company
2 Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness t
3 WORKPAPER 5 - PVRR Financial Assumptions Replace PTR Program costs with TOU Program costs Cash flow for NPV (1=BOP, 2=Mid Year, 3=EOP) Federal Income Tax Rate State Income Tax Rate (Net of Fed Benefit) Effective Corporate State / Federal Tax Rate Extend Bonus Depreciation through 2019 Present Value to End of: Module Life for Terminal Value Financial Assumptions Adopted Tax Scenario WACC First meter installed: Property Taxes Insurance Total Notes

1 Pacific Gas and Electric Company
2 Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-01
3 WORKPAPER 6 - PVRR Factor Calculations

		1 2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033 20	<i>j</i> 34 20	035
Depreciation & Prop Taxes																																
Federal Depreciation Expenditure 20 MACRS 10 / 10 Bonus 2010 Blend 2	10 i \$0 j \$0 k \$0 k \$50 l \$0 m \$50 n \$50 p \$50 q \$50 r \$50 t \$50 t \$50 v \$50 v \$50 v \$50 v \$50 y \$50 y \$50 y \$50 y \$50 y \$50 aaa \$50 abb \$50 aac \$50 add \$50 aee \$50 a	\$0 0 55.94% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0 6.61% 55.94%	\$0 5.62% 6.61% 55.94%	\$0 4.77% 5.62% 6.61% 55.94%	\$0 4.16% 4.77% 5.62% 6.61% 55.94%	\$0 4.16% 4.16% 4.77% 5.62% 6.61% 55.94%	\$0 4.16% 4.16% 4.16% 4.77% 5.62% 5.62% 5.594%	\$0 4.16% 4.16% 4.16% 4.16% 4.16% 5.62% 6.61%	\$0 4.16% 4.16% 4.16% 4.16% 4.77% 5.62% 6.61% 55.94%	\$0 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 4.77% 5.62% 6.61% 55.94%	\$0 2.08% 4.16% 4.16% 4.16% 4.16% 4.16% 4.52% 6.61% 55.94%	\$0 0.00% 2.08% 4.16% 4.16% 4.16% 4.16% 4.16% 4.77% 5.62% 6.61% 55.94%	\$0 0.00% 0.00% 2.08% 4.16% 4.16% 4.16% 4.16% 4.16% 5.26% 6.61% 5.5.94%	\$0 0.00% 0.00% 0.00% 2.08% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 5.62% 6.61%	\$0 0.00% 0.00% 0.00% 0.00% 2.08% 4.16% 4.16% 4.16% 4.16% 4.16% 5.62% 6.61% 55.94%	\$0 0.00% 0.00% 0.00% 0.00% 0.00% 4.16% 4.16% 4.16% 4.16% 4.16% 5.62% 6.61% 5.5.94%	\$0 0.00% 0.00% 0.00% 0.00% 0.00% 2.08% 4.16% 4.16% 4.16% 4.16% 4.16% 5.62% 6.61%	\$0 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 5.62% 6.62% 6.62%	\$0 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 6.61% 55.94%	\$0 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 5.62% 6.62% 6.62%	\$0 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 2.08% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16%	\$0 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 5.52% 6.61%	\$0 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 5.594%	\$0 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 5.52% 6.61%	\$0 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 4.16% 4.1	\$0 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16% 4.16%	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 4.16% 4.16% 4.16% 4.16% 4.16%	0.00% 0.00%	0.00% 0.00% 0.00 0.00 0.00% 0.00 0.	00% 0.0 00% 0.	.00% .00% .00% .00% .00% .00% .00% .00%
Test Remaining Tax Basis Sub-total: Fed Depreciation Sub-total: Fed Write-Off	u.	\$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$1 \$1
tate Depreciation																																
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Remaining Tax Basis Sub-total: State Depreciation Sub-total: State Write-Off		\$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	
roperty Tax / Insurance		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
ssh Flow Recap: Expenditure Federal Tax Benefit State Tax Benefit Property Tax / Insurance Property Tax / Insurance Tax Benefit Net Cash Flow	_	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 (\$0) (\$0) \$0 (\$0)	(\$0) (\$0) \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0	

Pacific Gas and Electric Company
 Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiv
 WORKPAPER 6 - PVRR Factor Calculations

5		33 2037	34 2038	35 2039	36 2040	37 2041	38 2042	39 2043	40 2044	41 2045	42 2046	43 2047	44 2048	45 2049	46 2050	47 2051	48 2052	49 2053	50 2054	51 2055	52 2056	53 2057	54 2058	55 2059	
Depreciation & Prop Taxes																									
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Í	k I m	0.00% 0.00% 0.00%	0.00% 0.00%	0.00%																					
!	n	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%																			
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1	s t	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00%	0.00%													
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ā	ad ae af	0.00% 2.08% 4.16%	0.00% 0.00% 2.08%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0.00%	0.00%		
ā	ag ah	4.16% 4.16%	4.16% 4.16%	2.08% 4.16%	0.00% 2.08%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%	0.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%	0.00%	0.00% 0.00%	0.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%	
Remaining Tax Basis Sub-total: Fed Depreciation Sub-total: Fed Write-Off		\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	
State Depreciation ADR-SYD 30																									
	p q r s t t u v v w x x y z aa aa b ab	0.11% 0.32% 0.54% 0.75% 1.18% 1.39% 1.61% 1.61% 2.04% 2.25% 2.47% 2.68% 2.90% 3.311% 3.33% 3.54% 3.97%	0.11% 0.32% 0.54% 0.75% 0.97% 1.18% 1.39% 1.61% 1.82% 2.04% 2.25% 2.47% 2.68% 3.11% 3.33% 3.54% 3.75%	0.11% 0.32% 0.54% 0.75% 0.97% 1.18% 1.61% 1.82% 2.04% 2.25% 2.47% 2.68% 2.90% 3.11%	0.11% 0.32% 0.54% 0.75% 1.18% 1.39% 1.61% 2.04% 2.25% 2.68% 2.90% 3.31%	0.11% 0.32% 0.54% 0.75% 0.97% 1.18% 1.39% 1.61% 1.82% 2.04% 2.25% 2.47% 2.68% 2.90% 3.11%	0.11% 0.32% 0.54% 0.75% 1.18% 1.39% 1.61% 1.82% 2.25% 2.47% 2.68% 2.90%	0.11% 0.32% 0.54% 0.75% 0.97% 1.18% 1.39% 1.61% 2.04% 2.25% 2.47% 2.68%	0.11% 0.32% 0.54% 0.75% 0.97% 1.18% 1.39% 2.04% 2.25% 2.47%	0.11% 0.32% 0.54% 0.75% 0.97% 1.18% 1.61% 1.82% 2.04% 2.25%	0.11% 0.32% 0.54% 0.75% 0.97% 1.18% 1.39% 1.61% 2.04%	0.11% 0.32% 0.54% 0.75% 0.97% 1.18% 1.39% 1.61%	0.11% 0.32% 0.54% 0.75% 0.97% 1.189% 1.61%	0.11% 0.32% 0.54% 0.75% 0.97% 1.18% 1.39%	0.11% 0.32% 0.54% 0.75% 1.18%	0.11% 0.32% 0.54% 0.75% 0.97%	0.11% 0.32% 0.54% 0.75%	0.11% 0.32% 0.54%	0.11% 0.32%	0.11%					
; ;	ad ae af ag ah	4.18% 4.40% 4.61% 4.83% 5.04%	3.97% 4.18% 4.40% 4.61% 4.83%	3.75% 3.97% 4.18% 4.40% 4.61%	3.54% 3.75% 3.97% 4.18% 4.40%	3.33% 3.54% 3.75% 3.97% 4.18%	3.11% 3.33% 3.54% 3.75% 3.97%	2.90% 3.11% 3.33% 3.54% 3.75%	2.68% 2.90% 3.11% 3.33% 3.54%	2.47% 2.68% 2.90% 3.11% 3.33%	2.25% 2.47% 2.68% 2.90% 3.11%	2.04% 2.25% 2.47% 2.68% 2.90%	1.82% 2.04% 2.25% 2.47% 2.68%	1.61% 1.82% 2.04% 2.25% 2.47%	1.39% 1.61% 1.82% 2.04% 2.25%	1.18% 1.39% 1.61% 1.82% 2.04%	0.97% 1.18% 1.39% 1.61% 1.82%	0.75% 0.97% 1.18% 1.39% 1.61%	0.54% 0.75% 0.97% 1.18% 1.39%	0.32% 0.54% 0.75% 0.97% 1.18%	0.11% 0.32% 0.54% 0.75% 0.97%	0.11% 0.32% 0.54% 0.75%	0.11% 0.32% 0.54%	0.11% 0.32%	
Test Remaining Tax Basis Sub-total: State Depreciation Sub-total: State Write-Off		\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	
Property Tax / Insurancε		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Cash Flow Recap: Expenditure Federal Tax Benefit		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
State Tax Benefit Property Tax / Insurance		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	

1 Pacific Gas and Electric Company
2 Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-01
3 WORKPAPER 6 - PVRR Factor Calculations

3 WURKPAPER 6 - PVRR Factor Calculations 4	1		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26			29		31 32
5 87 	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034 2	2035 2036
### Profile Federal Tax Treatment Treatment Life ### 1	2005 1,000 1,148 1,159 1,127 1,128 1,180 1,192 1,189 1,000 1,127 1,129 1,131 1,131 1,130 1,132 1,135 1,165 1,166 1,168 1,168 1,168 1,168 1,168 1,198 1,194 1,181 1,195 1,192 1,182 1,194 1,191 1,184 1,195 1,192 1,182 1,194 1,191 1,184 1,196 1,193 1,194 1,191 1,184 1,196 1,193 1,126 1,126 1,126 1,127 1,126 1,127 1,128 1,129 1,151 1,182 1,128 1,129 1,151 1,182 1,128 1,299 1,317 1,181 1,182 1,299 1,317 1,182 1,205 1,213	1.149 1.122 1.177 1.185 1.184 1.004 1.126 1.124 1.124 1.124 1.124 1.125 1.130 1.130 1.132 1.133 1.130 1.134 1.135 1.160 1.150 1.150 1.150 1.158 1.162 1.160 1.150 1.158 1.162 1.163 1.192 1.193 1.193 1.194 1.194 1.194 1.194 1.195 1.196 1.196 1.196 1.196 1.196 1.196 1.196 1.197 1.197 1.198 1.198 1.199 1.198 1.198 1.199 1.198 1.198 1.198 1.198 1.198 1.198 1.198 1.198 1.289 1.289 1.289 1.288 1.198 1.288 1.198 1.288 1.198 1.381 1.389 1.286 1.284 1.336 1.284 1.337 1.389 1.286 1.284 1.397 1.387 1.377	2007 1.000 1.100 1.134 1.139 1.119 1.112 1.178 1.180 1.1020 1.128 1.129 1.131 1.129 1.131 1.152 1.161 1.152 1.161 1.152 1.161 1.152 1.161 1.152 1.161 1.152 1.161 1.162 1.161 1.162 1.161 1.162 1.161 1.162 1.161 1.162 1.161 1.162 1.161 1.162 1.161 1.162 1.161 1.162 1.161 1.162 1.161 1.162 1.162 1.163 1.164 1.162 1.167 1.209 1.210 1.188 1.194 1.195 1.184 1.190 1.191	2008 1.000 1.127 1.129 1.118 1.121 1.169 1.172 1.176 1.051 1.162 1.140 1.141 1.143 1.144 1.148 1.176 1.159 1.192 1.195 1.195 1.195 1.195 1.195 1.195 1.195 1.196 1.173 1.176 1.173 1.176 1.173 1.176 1.173 1.176 1.173 1.176 1.173 1.176 1.173 1.176 1.173 1.176 1.173 1.176 1.173 1.176 1.173 1.176 1.173 1.176 1.173 1.176 1.190 1.191 1.191 1.191 1.191 1.191 1.191 1.191 1.191 1.191 1.191 1.192 1.195 1.196 1.202 1.209 1.209 1.208 1.209 1.209 1.208 1.209 1.209 1.208 1.210 1.214 1.311 1.314 1.240 1.243 1.257 1.269 1.271 1.376 1.300 1.301 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.311	2009 0.964 1.082 1.083 1.077 1.080 1.124 1.125 1.130 1.032 1.135 1.106 1.107 1.110 1.117 1.147 1.147 1.147 1.147 1.148 1.159 1.200 1.215 1.166 1.170 1.170 1.170 1.188 1.199 1.200 1.215 1.276 1.276 1.290 1.201 1.276 1.280 1.305 1.318 1.148 1.148 1.178	2010 0.896 1.003 1.003 1.003 1.003 1.004 1.007 1.007 1.007 1.007 1.007 1.007 1.007 1.008	2011 0.833 0.929 0.929 0.929 0.929 0.929 0.932 0.966 0.970 0.891 0.956 0.956 0.958	2012 0.774 0.861 0.866 0.895 0.898 0.895 0.898 0.892 0.910 0.888 0.890 0.892 0.896 0.990 0.993 0.894 0.925 0.993 0.994 0.925 0.992 0.925 0.993 0.991 0.991 0.993 0.991 0.993 0.999	2013 0.719 0.798 0.802 0.898 0.802 0.829 0.822 0.770 0.846 0.824 0.825 0.827 0.826 0.823 0.835 0.826 0.833 0.855 0.827 0.826 0.830 0.831 0.835 0.858 0.859 0.862 0.864 0.867 0.847 0.847 0.847 0.841 0.942 0.907 0.925 0.925 0.925 0.925 0.942 0.900 0.885	2014 0.668 0.739 0.745 0.767 0.767 0.767 0.767 0.766 0.768 0.768 0.769 0.773 0.794 0.797 0.767 0.770 0.715 0.766 0.766 0.768 0.776 0.770 0.794 0.794 0.794 0.794 0.794 0.794 0.794 0.794 0.794 0.794 0.794 0.794 0.794 0.796 0.780 0.814 0.817 0.796 0.780 0.818 0.819 0.819 0.819 0.819 0.819 0.819 0.819 0.819 0.819 0.819 0.830 0.840 0.812 0.819 0.830 0.840 0.812 0.819 0.830 0.840 0.912 0.855 0.855 0.855 0.855 0.855 0.855 0.855	2015 0.621 0.684 0.690 0.710 0.710 0.711 0.712 0.665 0.728 0.709 0.710 0.711 0.713 0.716 0.736 0.736 0.736 0.736 0.736 0.736 0.736 0.736 0.736 0.736 0.736 0.736 0.736 0.736 0.736 0.736 0.737 0.750 0.753 0.753 0.756 0.753 0.756 0.753 0.756 0.732 0.732 0.736 0.736 0.738 0.756 0.732 0.736 0.736 0.738 0.756 0.738 0.756 0.738 0.756 0.738 0.756 0.738 0.756 0.738 0.756 0.738 0.759 0.759 0.768 0.778 0.807 0.807 0.807 0.807 0.807 0.807 0.807 0.807 0.759 0.768 0.778 0.844 0.778 0.844 0.792 0.768 0.778 0.844 0.778 0.844 0.792 0.768 0.778 0.844 0.792 0.768 0.778 0.844 0.791 0.805 0.768 0.778 0.844 0.791 0.805 0.768 0.778 0.864 0.864 0.864 0.864 0.864 0.869 0.791 0.791 0.805 0.708	2016 0.577 0.633 0.633 0.633 0.639 0.641 0.657 0.659 0.618 0.657 0.659 0.660 0.663 0.661 0.662 0.665 0.665 0.665 0.665 0.6669 0.681 0.697 0.697 0.697 0.697 0.697 0.697 0.697 0.697 0.672 0.672 0.674 0.681 0.681 0.681 0.681 0.697 0.697 0.697 0.697 0.702 0.711 0.747 0.747 0.747 0.747 0.747 0.747 0.747 0.747 0.747 0.747 0.752 0.720 0.731 0.720 0.731 0.730 0.730 0.730 0.730 0.730 0.730 0.730 0.730 0.731 0.757 0.675 0.675 0.675 0.757 0.757 0.757 0.779 0.772	2017 0.537 0.586 0.591 0.593 0.607 0.609 0.574 0.624 0.608 0.610 0.611 0.614 0.631 0.612 0.612 0.613 0.607 0.616 0.619 0.631 0.612 0.612 0.612 0.612 0.603 0.610 0.611 0.614 0.631 0.631 0.631 0.631 0.631 0.631 0.631 0.631 0.631 0.631 0.645 0.646 0.626 0.628 0.621 0.621 0.623 0.630 0.631 0.634 0.634 0.635 0.691 0.634 0.635 0.691 0.649 0.649 0.649 0.658 0.6666 0.720 0.675 0.658 0.6668 0.720 0.677 0.674	2018 0.499 0.542 0.547 0.549 0.561 0.563 0.561 0.563 0.564 0.565 0.568 0.568 0.568 0.568 0.568 0.566 0.567 0.570	2019 0.463 0.501 0.501 0.506 0.501 0.506 0.507 0.518 0.519 0.496 0.524 0.523 0.525 0.540 0.524 0.524 0.524 0.524 0.524 0.524 0.519 0.527 0.525 0.540 0.524 0.524 0.524 0.524 0.524 0.524 0.524 0.525 0.530 0.540 0.540 0.540 0.541 0.524 0.527 0.530 0.530 0.531 0.536 0.535 0.535 0.536 0.536 0.536 0.537 0.536 0.537 0.538 0.539 0.541 0.542 0.591 0.592	2020 0.431 0.463 0.468 0.469 0.479 0.479 0.479 0.479 0.494 0.481 0.482 0.483 0.488 0.489 0.489 0.499 0.494 0.484 0.485 0.489 0.499 0.499 0.499 0.499 0.499 0.499 0.499 0.499 0.499 0.499 0.499 0.509 0.509 0.509 0.509 0.494 0.494 0.494 0.494 0.494 0.494 0.494 0.494 0.499 0.509	0.400 0.428 0.432 0.433 0.441 0.442 0.433 0.441 0.442 0.428 0.456 0.444 0.445 0.446 0.447 0.449 0.461 0.447 0.444 0.450 0.453 0.461 0.461 0.461 0.461 0.462 0.450 0.453 0.461 0.461 0.461 0.461 0.470 0.450	2022 0.372 0.395 0.3995 0.3995 0.3999 0.407 0.407 0.407 0.407 0.410 0.411 0.412 0.415 0.426 0.427 0.426 0.427 0.426 0.427 0.426 0.427 0.426 0.427 0.426 0.427 0.427 0.428 0.428 0.428 0.429 0.429 0.429 0.429 0.429 0.429 0.420 0.420 0.420 0.421 0.421 0.421 0.421 0.421 0.422 0.423 0.425 0.425 0.426 0.427 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0.350 0.351 0.353 0.364 0.366 0.366 0.367 0.367 0.367 0.367 0.367 0.367 0.367 0.367 0.368 0.368 0.368 0.368 0.368 0.368 0.368 0.368 0.368 0.368 0.368 0.368 0.368 0.368 0.368 0.368 0.369	2025 0.299 0.310 0.311 0.313 0.314 0.316 0.317 0.319 0.321 0.323 0.323 0.323 0.323 0.324 0.324 0.324 0.324 0.324 0.324 0.324 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.327 0.321 0.321 0.321 0.322 0.322 0.323 0.323 0.323 0.323 0.324 0.324 0.324 0.324 0.324 0.324 0.324 0.324 0.324 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.327 0.321 0.321 0.321 0.321 0.321 0.321 0.321 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.327 0.327 0.327 0.327 0.328 0.338 0.330 0.336 0.339 0.349 0.339 0.352 0.339 0.336 0.339 0.336 0.339 0.336 0.339 0.336 0.336	2026 0.278 0.286 0.288 0.289 0.290 0.290 0.290 0.296 0.304 0.297 0.299 0.300 0.300 0.300 0.300 0.300 0.300 0.300 0.301 0.301 0.302 0.302 0.3030	2027 2241 2246 0.248 0.249 0.249 0.259 0.253 0.254 0.255 0.259 0.253 0.254 0.255 0.259 0.253 0.254 0.255 0.259 0.259 0.253 0.254 0.255 0.259 0.259 0.259 0.259 0.253 0.255 0.259 0.256 0.257 0.257 0.257 0.258 0.260 0.252 0.252 0.255 0.255	2028 0.145 0.147 0.147 0.147 0.147 0.148 0.148 0.148 0.150 0.151 0.151 0.151 0.150 0.150 0.150 0.151 0.150 0.151 0.150 0.150 0.151 0.150 0.150 0.151 0.150 0.150 0.151 0.150 0.150 0.150 0.151 0.150	2029 0.073 0.074 0.074 0.074 0.074 0.074 0.074 0.073 0.073 0.073 0.073 0.073 0.073 0.073 0.073 0.073 0.073 0.073 0.073 0.074 0.077 0.073 0.073 0.073 0.073	2030 0.010					
159 Depreciation Methods / Rates Expense 161 100% Bonus 162 SL 3 163 SL 3 Bonus 164 SL 3 / 3 Bonus 2008 Blend 165 SL 3 / 3 Bonus 2010 Blend 166 SL 3 40% Bonus 2018 167 SL 3 30% Bonus 2019 168 SL 15 169 MACRS 5 170 MACRS 5 Bonus 171 MACRS 5 / 5 Bonus 2018 Blend 172 MACRS 5 / 5 Bonus 2010 Blend 173 MACRS 5 5 Honus 2010 Blend 174 MACRS 5 5 Honus 2010 Blend 175 MACRS 5 10% Bonus 2010 Blend 176 MACRS 5 10% Bonus 2010 177 MACRS 5 10% Bonus 2010 178 MACRS 5 10% Bonus 2019 179 MACRS 10 Bonus 177 MACRS 10 Bonus 178 MACRS 10 Bonus 179 MACRS 10 Bonus 179 MACRS 10 Bonus 178 MACRS 10 Bonus 179 MACRS 10 Bonus 2018 179 MACRS 15 / 5 Bonus 2018 180 MACRS 20 / 20 Bonus 2019 181 MACRS 20 / 20 Bonus 2010 Blend 181 MACRS 20 / 20 Bonus 2010 Blend 182 MACRS 20 Bonus 184 MACRS 20 Bonus 185 MACRS 20 Bonus 186 MACRS 20 40% Bonus 2018 186 MACRS 20 40% Bonus 2018 187 MACRS 10 I 10 Bonus 2010 Blend 188 MACRS 20 40% Bonus 2010 189 MACRS 10 / 10 Bonus 2010 Blend 1 189 MACRS 10 / 10 Bonus 2010 Blend 1 189 MACRS 10 / 10 Bonus 2010 Blend 1 189 MACRS 10 / 10 Bonus 2010 Blend 1 189 MACRS 10 / 10 Bonus 2010 Blend 1 189 MACRS 10 / 10 Bonus 2010 Blend 2 180 ABCRS 10 / 10 Bonus 2010 Blend 1 189 MACRS 10 / 10 Bonus 2010 Blend 2 180 ABCRS 10 / 10 Bonus 2	100.00% 100.00% 16.67% 58.34% 56.25% 50.00% 41.67% 3.33% 20.00% 60.00% 58.00% 70.54% 52.00% 44.00% 7.50% 53.75% 44.50% 35.25% 50.00% 49.53% 65.12% 37.58% 49.47% 42.25% 32.63% 71.54% 65.14% 65.94% 16.67%	16.65% 17.48% 18.89% 20.00% 23.33% 6.67% 32.00% 16.00% 16.80% 11.78% 19.20% 22.40% 13.88% 6.94% 6.94% 3.90% 2.62% 7.22% 3.61% 3.79% 4.33% 4.94% 6.61%	33.33% 16.65% 17.48% 18.89% 20.00% 23.33% 6.67% 19.20% 9.60% 10.08% 7.07% 11.52% 5.90% 7.07% 5.90% 7.07% 5.90% 2.42% 6.68% 2.42% 6.68% 2.42% 6.83% 3.51% 4.67% 6.83% 5.62% 2.000%	16.67% 8.37% 8.78% 9.49% 10.00% 11.67% 6.67% 11.52% 5.76% 6.05% 4.24% 8.06% 10.02% 5.01% 6.01% 7.70% 3.32% 2.24% 6.18% 3.09% 3.24% 3.71% 4.32% 4.10% 3.56% 4.77%	6.67% 11.52% 5.76% 6.05% 4.24% 6.91% 8.06% 8.74% 4.37% 5.24% 6.12% 6.93% 3.06% 2.07% 5.71% 2.86% 3.00% 3.43% 4.00% 4.10% 4.16% 4.16%	6.67% 5.76% 2.88% 3.02% 2.12% 4.03% 8.74% 4.37% 5.24% 6.23% 2.82% 1.92% 5.29% 2.77% 3.17% 3.17% 3.11% 4.16%	8.74% 4.37% 5.24% 5.90% 2.62% 4.89% 3.42% 3.11% 4.16% 3.11%	8.74% 4.37% 5.24% 6.12% 5.90% 2.44% 4.52% 2.27% 2.77% 3.17% 4.16%	8.74% 4.37% 5.24% 6.12% 5.91% 2.41% 4.66% 2.34% 2.34% 2.34% 4.65% 3.12% 3.11% 4.16%	8.74% 4.37% 5.24% 6.12% 5.90% 2.41% 2.33% 2.34% 2.68% 2.34% 2.68% 3.12% 3.11% 4.16%	4.37% 2.19% 2.62% 3.06% 5.91% 2.41% 1.62% 4.46% 2.23% 2.34% 2.68% 3.12%	5.90% 2.41% 1.62% 4.46% 2.23% 2.34% 2.68% 3.12%	5.91% 2.41% 1.62% 4.46% 2.23% 2.34% 2.68% 3.12%	5.90% 2.41% 1.62% 4.46% 2.23% 2.34% 2.68% 3.12%	5.91% 2.41% 1.62% 4.46% 2.23% 2.34% 2.68% 3.12%	2.95% 2.27% 2.27% 4.46% 2.34% 2.34% 2.34% 3.12%	2.12% 1.62% 4.46% 2.23% 2.34% 2.68% 3.12%	2.12% 1.62% 4.46% 2.23% 2.34% 2.68% 3.12%	2.12% 1.62% 4.46% 2.23% 2.34% 2.68% 3.12%	2.12% 1.62% 4.46% 2.23% 2.34% 2.68% 3.12%	1.06% 0.81% 2.23% 1.17% 1.34% 1.56%										
191 ADR-SYD 30 192 ADR-SYD 35	3.33% 2.86%	6.44%	6.11% 5.23%	5.90% 4.93%	5.69% 4.65%	5.47% 4.38%	5.26% 4.13%	5.04% 3.90%	4.83% 3.68%	4.61% 3.47%	4.40% 3.27%	4.18% 3.08%	3.97% 2.91%	3.75% 2.74%	3.54% 2.58%	3.33% 2.44%	3.11% 2.30%	2.90% 2.17%	2.68% 2.04%	2.47% 2.04%	2.25% 2.04%	2.04% 2.04%	1.82% 2.04%	1.61% 2.04%	1.39% 2.04%	1.18% 2.04%	0.97% 2.04%		0.54% 2.04%		

	5 WORKFAFER 6 - FVRK I actor Calculations																								
Г	4	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	5	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060

87			D4-4- T
88	Profile	Federal Tax Treatment	State Tax Treatment
89	1	Expense	Expense
90	2	Expense	Expense
91	3	Expense	Expense
92	4	100% Bonus	SL 3
93	5	100% Bonus	ADR-SYD 6
94	6	100% Bonus	ADR-SYD 30
95	7	100% Bonus	ADR-SYD 30
96	8	100% Bonus	ADR-SYD 35
97	9	SL 3	SL 3
98	10	SL 3	SL 3
99	11	SL 3 Bonus	SL 3
100	12	SL 3 / 3 Bonus 2008 Blend	SL 3
101	13	SL 3 / 3 Bonus 2010 Blend	SL 3
102	14	SL 3 40% Bonus 2018	SL 3
103	15	SL 3 30% Bonus 2019 MACRS 5	SL 3 ADR-SYD 6
104 105	16 17	MACRS 5 MACRS 5 Bonus	ADR-SYD 6
106	18	MACRS 5 Borius MACRS 5 / 5 Borius 2008 Blend	ADR-SYD 6
107	19	MACRS 5 / 5 Bonus 2010 Blend	ADR-SYD 6
108	20	MACRS 5 40% Bonus 2018	ADR-SYD 6
109	21	MACRS 5 30% Bonus 2019	ADR-SYD 6
110	22	MACRS 5	ADR-SYD 6
111	23	MACRS 5	ADR-SYD 6
112	24	MACRS 5 Bonus	ADR-SYD 6
113	25	MACRS 5 Bonus	ADR-SYD 6
114	26	MACRS 5 / 5 Bonus 2010 Blend	ADR-SYD 6
115	27	MACRS 5 / 5 Bonus 2010 Blend	ADR-SYD 6
116	28	MACRS 5 40% Bonus 2018	ADR-SYD 6
117	29	MACRS 5 40% Bonus 2018	ADR-SYD 6
118	30	MACRS 5 30% Bonus 2019	ADR-SYD 6
119 120	31 32	MACRS 5 30% Bonus 2019 MACRS 5	ADR-SYD 6 ADR-SYD 30
120	32	MACRS 5	ADR-SYD 30 ADR-SYD 30
122	34	MACRS 5	ADR-SYD 35
123	35	MACRS 5 Bonus	ADR-SYD 30
124	36	MACRS 5 Bonus	ADR-SYD 30
125	37	MACRS 5 Bonus	ADR-SYD 35
126	38	MACRS 5 / 5 Bonus 2010 Blend	ADR-SYD 30
127	39	MACRS 5 / 5 Bonus 2010 Blend	ADR-SYD 30
128	40	MACRS 5 / 5 Bonus 2010 Blend	ADR-SYD 35
129	41	MACRS 5 40% Bonus 2018	ADR-SYD 30
130	42	MACRS 5 40% Bonus 2018	ADR-SYD 30
131	43	MACRS 5 40% Bonus 2018	ADR-SYD 35
132 133	44 45	MACRS 5 30% Bonus 2019 MACRS 5 30% Bonus 2019	ADR-SYD 30 ADR-SYD 30
134	45 46	MACRS 5 30% Bonus 2019 MACRS 5 30% Bonus 2019	ADR-SYD 30 ADR-SYD 35
135	47	MACRS 10	ADR-SYD 30
136	48	MACRS 10	ADR-SYD 30
137	49	MACRS 10 Bonus	ADR-SYD 30
138	50	MACRS 10 Bonus	ADR-SYD 30
139	51	MACRS 10 40% Bonus 2018	ADR-SYD 30
140	52	MACRS 10 40% Bonus 2018	ADR-SYD 30
141	53	MACRS 10 30% Bonus 2019	ADR-SYD 30
142	54	MACRS 10 30% Bonus 2019	ADR-SYD 30
143	55	MACRS 15	ADR-SYD 35
144	56	MACRS 15 / 20 Bonus 2008 Blend	ADR-SYD 35
145	57	MACRS 20 / 20 Bonus 2010 Blend	ADR-SYD 35
146 147	58 59	SL 15 MACRS 20	SL 15
148	60	MACRS 20	ADR-SYD 30 ADR-SYD 30
149	61	MACRS 20 MACRS 20 Bonus	ADR-SYD 35
150	62	MACRS 20 J 20 Bonus 2008 Blend	ADR-SYD 30
151	63	MACRS 20 / 20 Bonus 2008 Blend	ADR-SYD 30
152	64	MACRS 20 40% Bonus 2018	ADR-SYD 35
153	65	MACRS 20 30% Bonus 2019	ADR-SYD 35
154	66	MACRS 5 / 5 Bonus 2010 Blend 1	ADR-SYD 6
155	67	MACRS 5 / 5 Bonus 2010 Blend 1	ADR-SYD 30
156	68	MACRS 10 / 10 Bonus 2010 Blend 1	ADR-SYD 30
157 158	69	MACRS 10 / 10 Bonus 2010 Blend 2	ADR-SYD 30

1 Pacific Gas and Electric Company
2 Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-01
3 WORKPAPER 6 - PVRR Factor Calculations

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	2/	28	29	30	
			2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033 2	2034	_
1	State Tax	Useful																															
rofile Federal Tax Treatment	Treatment	Life	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030					
1 Expense	Expense	-	1.000	1.000	1.000	1.000	0.964	0.896	0.833	0.774	0.719	0.668	0.621	0.577	0.537	0.499	0.463	0.431	0.400	0.372	0.346	0.321	0.299	0.278	0.241	0.145	0.073	0.010					
2 SL 3	SL 3	-	1.000	1.004	1.020	1.051	1.032	0.959	0.891	0.828	0.770	0.715	0.665	0.618	0.574	0.534	0.496	0.461	0.428	0.398	0.370	0.344	0.319	0.296	0.254	0.150	0.073	0.010					
3 SL 15	SL 15	-	1.171	1.198	1.226	1.255	1.225	1.138	1.058	0.983	0.913	0.849	0.788	0.731	0.678	0.627	0.579	0.534	0.492	0.451	0.413	0.377	0.342	0.310	0.260	0.151	0.074	0.010					
4 Expense	Expense	27	1.159	1.149	1.139	1.129	1.083	1.003	0.929	0.861	0.798	0.739	0.684	0.633	0.586	0.542	0.501	0.463	0.428	0.395	0.365	0.337	0.310	0.286	0.246	0.147	0.073	0.010					
5 Expense	Expense	20	1.148	1.141	1.134	1.127	1.082	1.003	0.929	0.861	0.798	0.739	0.684	0.633	0.586	0.542	0.501	0.463	0.428	0.395	0.365	0.337	0.310	0.286	0.246	0.147	0.073	0.010					
6 SL 3*	SL 3	15	1.127	1.126	1.136	1.141	1.106	1.031	0.929	0.887	0.824	0.765	0.709	0.656	0.608	0.565	0.525	0.494	0.456	0.421	0.389	0.359	0.331	0.304	0.259	0.151	0.074	0.010					
7 MACRS 5*	ADR-SYD 6	15	1.134	1.140	1.152	1.150	1.113	1.026	0.932	0.893	0.830	0.770	0.714	0.661	0.612	0.570	0.530	0.499	0.461	0.426	0.394	0.363	0.333	0.305	0.259	0.151	0.074	0.010					
8 MACRS 15/20*	ADR-SYD 35	20	1.319	1.336	1.355	1.304	1.255	1.163	0.970	0.998	0.923	0.854	0.789	0.729	0.672	0.631	0.591	0.569	0.521	0.475	0.432	0.392	0.354	0.318	0.265	0.153	0.074	0.010					
9 MACRS 20/10*	ADR-SYD 30	20	1.364	1.381	1.399	1.300	1.199	1.092	0.966	0.955	0.885	0.819	0.759	0.702	0.649	0.608	0.569	0.545	0.502	0.461	0.421	0.384	0.349	0.315	0.264	0.152	0.074	0.010					
10 MACRS 20/10*	ADR-SYD 30	20	1.364	1.381	1.399	1.300	1.199	1.109	0.966	0.955	0.885	0.819	0.759	0.702	0.649	0.608	0.569	0.545	0.502	0.461	0.421	0.384	0.349	0.315	0.264	0.152	0.074	0.010					
11 MACRS 20/10*	ADR-SYD 30	27	1.376	1.389	1.404	1.302	1.200	1.112	0.966	0.955	0.885	0.819	0.759	0.702	0.649	0.608	0.569	0.545	0.502	0.461	0.421	0.384	0.349	0.315	0.264	0.152	0.074	0.010					
12 MACRS 20/10*	ADR-SYD 30	27	1.376	1.389	1.404	1.302	1.200	1.112	0.966	0.955	0.885	0.819	0.759	0.702	0.649	0.608	0.569	0.545	0.502	0.461	0.421	0.384	0.349	0.315	0.264	0.152	0.074	0.010					
13 MACRS 15/20*	ADR-SYD 35	20	1.319	1.336	1.355	1.304	1.255	1.131	0.970	0.998	0.923	0.854	0.789	0.729	0.672	0.631	0.591	0.569	0.521	0.475	0.432	0.392	0.354	0.318	0.265	0.153	0.074	0.010					
14 MACRS 20/5*	ADR-SYD 30	20	1.364	1.381	1.399	1.300	1.158	1.065	0.966	0.922	0.854	0.791	0.732	0.677	0.626	0.582	0.541	0.509	0.469	0.433	0.399	0.367	0.336	0.307	0.260	0.151	0.074	0.010					
15 MACRS 20/5*	ADR-SYD 30/6	20	1.364	1.381	1.399	1.300	1.128	1.037	0.932	0.898	0.832	0.771	0.714	0.661	0.612	0.570	0.530	0.499	0.461	0.426	0.394	0.363	0.333	0.305	0.259	0.151	0.074	0.010					
16 MACRS 20/5*	ADR-SYD 30	27	1.376	1.389	1.404	1.302	1.159	1.074	0.966	0.922	0.854	0.791	0.732	0.677	0.626	0.582	0.541	0.509	0.469	0.433	0.399	0.367	0.336	0.307	0.260	0.151	0.074	0.010					
17 MACRS 20/5*	ADR-SYD 30/6	27	1.376	1.389	1.404	1.302	1.129	1.046	0.932	0.898	0.832	0.771	0.714	0.661	0.612	0.570	0.530	0.499	0.461	0.426	0.394	0.363	0.333	0.305	0.259	0.151	0.074	0.010					
18 MACRS 15/5*	ADR-SYD 35	20	1.319	1.336	1.355	1.304	1.163	1.070	0.970	0.925	0.857	0.793	0.734	0.679	0.628	0.583	0.542	0.509	0.470	0.433	0.399	0.367	0.336	0.307	0.260	0.151	0.074	0.010					
19 MACRS 15/5*	ADR-SYD 35/6	20	1.319	1.336	1.355	1.304	1.128	1.038	0.932	0.898	0.832	0.771	0.714	0.661	0.612	0.570	0.530	0.499	0.461	0.426	0.394	0.363	0.333	0.305	0.259	0.151	0.074	0.010					
•	•																																_
	year = >		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
	bop		1.0000	1.0000	1.0000	1.0000	1.0000	0.9294	0.8637	0.8027	0.7460	0.6933	0.6444	0.5988	0.5565	0.5172	0.4807	0.4468	0.4152	0.3859	0.3586	0.3333	0.3097	0.2879	0.2675	0.2486	0.2311	0.2148	0.1996	0.1855	0.1724 0.	0.1602	
	mid-yi	r	1.0000	1.0000	1.0000	1.0000	0.9640	0.8959	0.8327	0.7739	0.7192	0.6684	0.6212	0.5773	0.5365	0.4986	0.4634	0.4307	0.4003	0.3720	0.3457	0.3213	0.2986	0.2775	0.2579	0.2397	0.2228	0.2070	0.1924	0.1788	0.1662 0.	0.1544	
	eop		1.0000	1.0000	1.0000	1.0000	0.9294	0.8637	0.8027	0.7460	0.6933	0.6444	0.5988	0.5565	0.5172	0.4807	0.4468	0.4152	0.3859	0.3586	0.3333	0.3097	0.2879	0.2675	0.2486	0.2311	0.2148	0.1996	0.1855	0.1724	0.1602 0.	0.1489	-
			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	34%	27%	27%	4%	0%	0%	0%	
	inclusion facto	r	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	93%	59%	31%	4%	0%	0%	0%	0%	
	icidsion facto	•	10070	. 50 /0	.0070	. 50 /0	. 50 /0	.5070	.50 /0	. 50 /0	.5070	.5070	.5070	.5070	.5070	. 30 /0	.5070	.5070	. 30 /0	.5570	.0070	. 50 /0	.0070	.0070	5570	33 /0	3170	470	370	S 70	5,5	0 /0	

Pacific Gas and Electric Company
 Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiv
 WORKPAPER 6 - PVRR Factor Calculations

4	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
5	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060

3																										_
	Profile	Federal Tax Treatment	State Tax Treatment																							
4		Expense	Expense																							
6		SL 3	SL 3																							
97		SL 15	SL 15																							
8		Expense	Expense																							
		Expense	Expense																							
9		SL 3*	SL 3																							
		MACRS 5*	ADR-SYD 6																							
1	8	MACRS 15/20*	ADR-SYD 35																							
	9	MACRS 20/10*	ADR-SYD 30																							
		MACRS 20/10*	ADR-SYD 30																							
	11	MACRS 20/10*	ADR-SYD 30																							
;		MACRS 20/10*	ADR-SYD 30																							
3		MACRS 15/20*	ADR-SYD 35																							
		MACRS 20/5*	ADR-SYD 30																							
		MACRS 20/5*	ADR-SYD 30/6																							
'		MACRS 20/5*	ADR-SYD 30																							
		MACRS 20/5*	ADR-SYD 30/6																							
		MACRS 15/5* MACRS 15/5*	ADR-SYD 35 ADR-SYD 35/6																							
_	19	WACR5 15/5"	ADR-51D 35/6																							
_																										
			vear = >	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	
			bop	0.1286	0.1195	0.1111	0.1032	0.0959	0.0892	0.0829	0.0770	0.0716	0.0665	0.0618	0.0575	0.0534	0.0496	0.0461	0.0429	0.0398	0.0370	0.0344	0.0320	0.0297	0.0276	0.0
			mid-yr	0.1240	0.1152	0.1071	0.0995	0.0925	0.0860	0.0799	0.0742	0.0690	0.0641	0.0596	0.0554	0.0515	0.0478	0.0445	0.0423	0.0384	0.0377	0.0332	0.0308	0.0286	0.0276	0.0
			eop	0.1195	0.1111	0.1032	0.0959	0.0892	0.0829	0.0770	0.0716	0.0665	0.0618	0.0575	0.0534	0.0496	0.0461	0.0429	0.0398	0.0370	0.0344	0.0320	0.0297	0.0276	0.0257	0.0
			ООР	2100		2502	2.2000		2.2020				2.2010	2.2070	2.2001	2.3 100	2.3101	2.2.20	2.2000	2.3010	2.3011	2.3020		2.32.0	201	0.0
				0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
			inclusion factor	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

Pacific Gas and Electric Company
Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013
WORKPAPER 7 - Depreciation and Tax Assumptions

Part	2015+		2015 1.13%	2015 3.96% 3.96% 3.27% 5.10% 6.59% 6.39% 5.00% 5.00%	2015 255 257 202 202 202 202 202 202	RS 10 Bonus Expense RS 20 Bonus RS 20 Bonus Expense SI 3 Bonus RRS 5 Bonus RRS 6 Bonus RS 20 Bonus RS 10 Bonus	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 6 ADR-SYD 30 ADR-SYD 30 ADR-SYD 30
Part	2014		2014 1.13%	2014 3.96% 3.27% 5.10% 5.10% 6.59% 6.39% 5.00% 5.00%	2014 25 25 31 31 20 20 15 16 20 20 20 20	5 55 2555	
Property is taken part 2011 Prop	2013		2013 1.13%	2013 3.968% 3.968% 3.27% 5.10% 6.59% 6.59% 5.00% 5.00%	2013 25 5 20 20 3 20 3 20 4 20 4 20 4 20 4 20 5 20 5 20 5 20 5	MACRS 10 Bonus Expense MACRS 10 Bonus Expense SL 3 Bonus MACRS 5 Bonus MACRS 20 Bonus MACRS 10 Bonus MACRS 10 Bonus	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL3 ADR-SYD 36 ADR-SYD 36 ADR-SYD 30 ADR-SYD 30
Part	2012		2012 1.12%	2012 3.968% 3.968% 5.27% 5.10% 6.59% 6.59% 6.59% 5.00% 5.00%	2 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	MACRS 10 Bonus Expense MACRS 10 Bonus Expense SL 3 Bonus MACRS 5 Bonus MACRS 10 Bonus MACRS 10 Bonus	ADR-SYD 30 Expense ADR-SYD 33 ADR-SYD 35 Expense SL3 ADR-SYD 36 ADR-SYD 30 ADR-SYD 30 ADR-SYD 30
Part	2011		2011 1.13%	2011 3.96% 3.96% 3.27% 5.10% 6.59% 6.39% 5.00% 5.00%	2011 25 25 31 2011 20 20 20 20 20 20 20 20 20 20 20 20 20 2	Expense 100% Bonus Expense 100% Bonus Expense 100% Bonus	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 30 Expense SL 3 ADR-SYD 35 ADR-SYD 35 ADR-SYD 35
Exercise Property It at Read 2012-2013 Report Property It at Read 2012-2014 Report Property It at Report Property It at Read 2012-2014 Report Property It at Report Property	2010		2010 1.16%	2010 3.27% 3.27% 5.27% 4.90% 6.67% 6.67% 5.00% 5.00%	2010 3.1 3.1 3.1 3.1 4.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5	0% MACRS 10 / 100% MACRS 10 Bonus Expense 0% MACRS 10 / 100% MACRS 10 Bonus 8.72% MACRS 20 / 91.28% MACRS 20 Bonus 13.44% SL 3 / 86.56% SL 3 Bonus 10.48% MACRS 5 / 10.85, MACRS 5 Bonus 6.77% MACRS 10 / 93.29% MACRS 10 Bonus 42.88% MACRS 10 / 57.12% MACRS 10 Bonus	ADR-SYD 30 Expense ADR-SYD 36 ADR-SYD 36 Expense Expense ADR-SYD 6 ADR-SYD 6 ADR-SYD 30 ADR-SYD 30
Products	2009		2009 1.18%	2009 3.27% 3.27% 5.27% 4.90% 6.67% 6.67% 5.00% 5.00%	2009 3.1 3.1 2.0 2.0 2.0 4.5 4.5 5.0 2.0 2.0 2.0 2.0 3.1 4.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	MACRS 10 Bonus Experse MACRS 20 Bonus Experse SL 3 Bonus MACRS 5 Bonus MACRS 20 Bonus MACRS 10 Bonus MACRS 10 Bonus	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL3 ADR-SYD 35 ADR-SYD 30 ADR-SYD 30 ADR-SYD 30
Pactors	2008		2008 1.10%	2008 3.27% 5.27% 4.90% 4.90% 6.67% 5.00% 5.00%	2008 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5% MACRS 20 / 95% MACRS 20 Bonus Expense 5% MACRS 20 / 95% WACRS 20 Bonus 5% MACRS 15 / 95% WACRS 20 Bonus 5% MACRS 15 / 95% WACRS 5 Bonus 5% MACRS 16 / 95% WACRS 5 Bonus 6% MACRS 20 / 95% WACRS 20 Bonus 5% MACRS 20 / 95% WACRS 20 Bonus 5% MACRS 20 / 95% WACRS 20 Bonus	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 35 ADR-SYD 36 ADR-SYD 30 ADR-SYD 30
Pactors	2007		2007 1.00%	2007 3.27% 3.27% 4.90% 6.67% 6.67% 5.00% 5.00%	2007 3.1 3.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	MACRS 20 Expense MACRS 20 MACRS 15 Expense SL 3 MACRS 5 MACRS 20 MACRS 20	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 36 Expense SL 3 ADR-SYD 6 ADR-SYD 6 ADR-SYD 30 ADR-SYD 30
Factors ### Property Tax Rate 2012-2013 ### Property Tax Rate 2012-2013 ### Property Tax Rate 2010-2011 ### Property Tax Rate Prior Property Tax Rate Prior Property Tax Rate Pr	2006		2006 1.00%	2006 3.76% 3.76% 4.90% 6.67% 6.67% 5.00%	2006 27 27 27 27 20 20 20 15 15 20 20 20 20 20 20 20 20 20 20 20 20 20	MACRS 20 Expense MACRS 20 MACRS 15 Expense SL 3 MACRS 5 MACRS 20 MACRS 20	
Factors 1.125505% Property Tax Rate 2012-2011 1.14651% Property Tax Rate 2012-2011 1.14651% Property Tax Rate 2010-2011 1.20351% Property Tax Rate 2009-2010 1.20351% Property Tax Rate 2009-2010 1.20351% Property Tax Rate Prior 1.20351% Property Tax Rate Tax Depreciation 1.20	2005		2005 1.00%	2005 3.76% 3.76% 4.90% 4.90% 6.67% 5.00% 5.00%	2005 27 27 27 20 20 20 15 15 15 20 20 20 20 20 20 20 20 20 20 20 20 20	MACRS 20 EXPENSE MAGRS 15 MAGRS 15 EXPENSE EXPENSE MAGRS 20 MAGRS 20 MAGRS 20	
		Factors 1.125605% Property Tax Rate 2012-2013 1.107648% Property Tax Rate 2011-2012 1.154651% Property Tax Rate 2010-2011 1.156101% Property Tax Rate 2009-2010 1.20351% Property Tax Rate 2009-2010 0.9980000% Property Tax Rate 2009-2009	Property Tax Rate All Asset Classes				

Pacific Gas and Electric Company

Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013

WORKPAPER 7 - Depreciation and Tax Assumptions

2030		2030 1.13%	2030 3.96% 3.26% 3.27% 5.10% 5.10% 6.59% 6.59% 5.00%	2030 255 253 31 20 20 20 20 20 20 20	MACRS 10 Expense MACRS 10 MACRS 20 Expense SL 3 MACRS 20 MACRS 20 MACRS 10	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 35 ADR-SYD 30 ADR-SYD 30
2029		2029 1.13%	2029 3.96% 3.96% 3.27% 5.10% 6.59% 6.59% 5.00%	203 255 253 31 20 20 20 20 20 20 20 20	MACRS 10 Expense MACRS 10 MACRS 20 Expense SL 3 MACRS 20 MACRS 20 MACRS 10 MACRS 10	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 35 ADR-SYD 36 ADR-SYD 30 ADR-SYD 30
2028		2028 1.13%	3.96% 3.96% 3.26% 5.27% 5.10% 6.59% 6.59% 5.00%	208 25 25 31 20 20 20 20 20 20 20 20 20	MACRS 10 Expense MACRS 10 MACRS 20 Expense SL 3 MACRS 20 MACRS 20 MACRS 10	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 35 ADR-SYD 30 ADR-SYD 30
2027		2027 1.13%	3.96% 3.96% 3.27% 5.10% 5.10% 6.59% 6.59% 5.00%	202 25 25 31 20 20 20 20 20 20 20 20 20	MACRS 10 Expense MACRS 10 MACRS 20 Expense SL 3 MACRS 20 MACRS 20 MACRS 10	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 35 ADR-SYD 36 ADR-SYD 30
2026		2026 1.13%	3.96% 3.96% 3.26% 5.10% 5.10% 6.59% 6.59% 5.00%	208 25 25 33 40 40 40 40 40 40 40 40 40 40 40 40 40	MACRS 10 Expense MACRS 10 MACRS 20 Expense SL 3 MACRS 20 MACRS 20 MACRS 10	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 36 ADR-SYD 36 ADR-SYD 30
2025		2025 1.13%	3.96% 3.96% 3.27% 5.10% 6.59% 6.39% 5.00%	202 25 25 31 20 20 20 20 20 20 20 20 20	MACRS 10 Expense MACRS 10 MACRS 20 Expense SL 3 MACRS 20 MACRS 20 MACRS 10	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 36 ADR-SYD 30 ADR-SYD 30
2024		2024 1.13%	2024 3.96% 3.96% 3.27% 5.10% 6.59% 6.59% 5.00%	202 25 25 31 20 20 20 20 20 20 20 20 20 20 20 20 20	MACRS 10 Expense MACRS 10 MACRS 20 Expense SL 3 MACRS 20 MACRS 20 MACRS 10	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 35 ADR-SYD 30 ADR-SYD 30
2023		2023 1.13%	2023 3.96% 3.26% 3.27% 5.10% 6.59% 6.59% 5.00%	2023 255 257 317 200 200 200 200 200 200 200 200 200 20	MACRS 10 Expense MACRS 10 MACRS 20 Expense SL 3 MACRS 20 MACRS 20 MACRS 10	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 35 ADR-SYD 30 ADR-SYD 30
2022		2022 1.13%	2022 3.96% 3.96% 3.27% 5.10% 6.59% 6.59% 5.00%	202 255 253 31 203 203 204 205 206 206	MACRS 10 Expense MACRS 10 MACRS 20 Expense SL 3 MACRS 5 MACRS 10 MACRS 10	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 6 ADR-SYD 35 ADR-SYD 30 ADR-SYD 30
2021		2021 1.13%	2021 3.96% 3.26% 3.27% 5.10% 6.59% 6.59% 6.59% 5.00%	202 25 25 31 20 20 20 20 20 20 20 20 20 20 20 20 20	MACRS 10 Expense MACRS 10 MACRS 20 Expense SL 3 MACRS 20 MACRS 20 MACRS 10	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 35 ADR-SYD 30 ADR-SYD 30
2020		2020 1.13%	2020 3.96% 3.96% 3.27% 5.10% 6.59% 6.59% 6.59% 5.00%	202 25 25 31 20 20 20 20 20 20 20 20 20 20 20 20 20	MACRS 10 Expense MACRS 10 MACRS 20 Expense SL 3 MACRS 20 MACRS 20 MACRS 10	ADR-SYD 30 Expense ADR-SYD 30 ADR-SYD 35 Expense SL 3 ADR-SYD 35 ADR-SYD 30 ADR-SYD 30
2019		2019 1.13%	2019 3.96% 3.96% 5.27% 5.10% 6.59% 6.39% 5.00% 5.00%	2019 2.5 2.5 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	MACRS 10 Borus Expense MACRS 20 Borus Expense S. 3 Borus MACRS 6 Borus MACRS 20 Borus MACRS 10 Borus MACRS 10 Borus	ADR-SYD 30 EXPORTE ADR-SYD 35 ADR-SYD 35 ADR-SYD 6 ADR-SYD 6 ADR-SYD 6 ADR-SYD 30 ADR-SYD 30
2018		2018 1.13%	2018 3.96% 3.96% 5.27% 5.10% 6.39% 6.39% 5.00%	2018 2 5 5 2 5 5 3 1 2 0 2 0 0 3 0 4 0 5 0 6 0 6 0 7 0 8	MACRS 10 Bonus Expense MACRS 20 Bonus Expense SL 38 Bonus MACRS 5 Bonus MACRS 6 Bonus MACRS 10 Bonus MACRS 10 Bonus	ADR-SYD 30 EXPENSE ADR-SYD 35 ADR-SYD 35 EXPENSE EXPENSE SL 3 ADR-SYD 6 ADR-SYD 30 ADR-SYD 30
2017		2017 1.13%	2017 3.96% 3.96% 5.27% 5.10% 6.39% 6.39% 5.00%	2017 25 25 30 30 20 20 20 20 20 20 20 20 20 20 20 20 20	MACRS 10 Borus Expense MACRS 20 Borus Expense SL 38 Borus MACRS 5 Borus MACRS 6 Borus MACRS 10 Borus MACRS 10 Borus	ADR-SYD 30 EXPORTE ADR-SYD 35 ADR-SYD 35 EXPORTE SI ADR-SYD 6 ADR-SYD 6 ADR-SYD 30 ADR-SYD 30
2016		2016 1.13%	2016 3.96% 3.26% 5.10% 5.10% 6.39% 5.00% 5.00%	2016 25 25 30 30 20 20 20 20 20 20 20 20 20 20 20 20 20	MACRS 10 Bonus Expense MACRS 20 Bonus MACRS 20 Bonus Expense SL 38 Bonus MACRS 5 Bonus MACRS 10 Bonus MACRS 10 Bonus	ADR-SYD 30 EXPORTES ADR-SYD 35 ADR-SYD 35 EXPORTES SL 3 ADR-SYD 6 ADR-SYD 36 ADR-SYD 30
	1.125008% Property Tax Rate 2012-2013 1.107649% Property Tax Rate 2011-2012 1.154651% Property Tax Rate 2010-2011 1.156101% Property Tax Rate 2009-2010 1.20531% Property Tax Rate 2009-2009 0.998000% Property Tax Rate 2009-2009	Property Tax Rate All Asset Classes	Book Depreciation Rates who Electric Meters who Electric Meters who as Meters as Meters Meter	Book Life Book Life The carrier Meters Without Breating Meters Without San Meters Without Gas Meters	Federal Tax Depreciation Muture Electric Meters A thru Electric Meters Muture Cas Meters A thru Cas Mete	State Tax Depreciation Electric Meters without Electric Meters 100 Gas Meters without Gas Meters Figure Gas Meters Figure Gas Meters Without Gas
	7.12 7.15 7.15 7.15 0.99		EDP 37000 COR flow thru EDP 37001 GDP 38100 COR flow thru CMP 39104 CMP 39104 CMP 39708 CMP 39708	EDP 37000 COR flow thru EDP 37001 GDP 38100 COR flow thru CMP 39104 CMP 39104 CMP 39706 CMP 39706	EDP 37000 COR flow thru EDP 37001 GDP 38100 COR flow thru CMP 39104 CMP 39104 CMP 39706 CMP 39706	EDP 37000 COR flow thru EDP 37001 GDP 38100 COR flow thru CMP 38104 CMP 39104 CMP 39706 CMP 39706

Pacific Gas and Electric Company

Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013 WORKPAPER 8 - Updated Meter Devices and Operations and Maintenance Costs

Line Updated Meter Devices and O&M 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 1 Incremental Meter Devices 2 SMU Growth Meter Devices 38,510 52,258 53,501 55,505 3 New Meters (Growth Volume) 20,196 22,100 29,192 32,094 33,566 27,918 48,238 52,378 51,095 56,151 53,409 4 Average Upgrade All Meters \$58.76 \$58.80 \$58.80 \$58.80 \$58.80 \$58.80 \$58.80 \$58.80 \$58.80 \$58.80 \$58.80 \$58.80 \$58.80 \$58.80 \$58.80 5 Cost per Unit Disconnect \$23.38 \$23.36 \$23.36 \$23.36 \$23.36 \$23.36 \$23.36 \$23.36 \$23.36 \$23.36 \$23.36 \$23.36 \$23.36 \$23.36 \$23.36 HAN \$10.81 \$10.81 \$10.81 \$10.81 \$10.81 \$10.81 \$10.81 \$10.81 \$10.81 \$10.81 \$10.81 \$10.81 \$10.81 \$10.81 \$10.81 Average \$92.94 \$92.97 \$92.97 \$92.97 \$92.97 \$92.97 \$92.97 \$92.97 \$92.97 \$92.97 \$92.97 \$92.97 \$92.97 \$92.97 \$92.97 \$1,877 \$2,055 \$2,714 \$2,984 \$3,120 \$3,580 \$2,595 \$4,484 \$4,858 \$4,750 \$4,974 \$5,160 \$5,220 \$4,965 8 SMU Growth Meter Devices \$4,869 9 SMU Replacement Meter Devices 45,472 45,692 45,956 46,238 46,548 46,833 47,160 47,593 48,042 48,486 48,936 49,404 49,884 50,354 10 Replacement SMU 1P Meters 45,290 11 Add'l Replacements - HAN \$90.39 \$90.39 12 Average SMU Cost / Unit - 1P Meter \$90.39 \$90.39 \$90.39 \$90.39 \$90.39 \$90.39 \$90.39 \$90.39 \$90.39 \$90.39 \$90.39 \$90.39 \$90.39 \$23.08 \$23.08 \$23.08 13 Average SMU Cost / Unit - HAN only \$23.08 \$23.08 \$23.08 \$23.08 \$23.08 \$23.08 \$23.08 \$23.08 \$23.08 \$23.08 \$23.08 \$23.08 14 Units covered by Warranty - 1P Meter 100.0% 100.0% 95.1% 62.0% 35.9% 11.3% 7.3% 7.3% 7.3% 7.3% 7.3% 7.2% 7.2% 7.2% 7.2% 15 Units covered by Warranty - HAN 100.0% 100.0% 100.0% 98.3% 62.5% 34.4% 7.9% 7.9% 7.9% 7.8% 7.8% 7.8% 7.7% 7.7% 7.7% 16 SMU Replacement Meter Devices \$0 \$0 \$202 \$1,580 \$2,679 \$3,733 \$3,923 \$3,951 \$3,988 \$4,026 \$4,064 \$4,103 \$4,143 \$4,183 \$4,223 17 Total SMU Meter Devices \$1,877 \$2,055 \$2,916 \$4,564 \$5,799 \$7,313 \$6,518 \$8,435 \$8,857 \$8,885 \$8,815 \$9,076 \$9,303 \$9,403 \$9,188 18 AMI Growth Meter Devices 52,378 19 New Meters (Growth Volume) 20,196 22,100 29,192 32,094 33,566 38,510 27,918 48,238 52,258 51,095 53,501 55,505 56,151 53,409 20 Average AMI Cost per Unit - All Meters \$37.65 \$37.70 \$37.70 \$37.70 \$37.70 \$37.70 \$37.70 \$37.70 \$37.70 \$37.70 \$37.70 \$37.70 \$37.70 \$37.70 \$37.70 21 AMI Growth Meter Devices \$760 \$1,101 \$1,210 \$1,265 \$1,452 \$1,052 \$1,819 \$1,975 \$1,970 \$1,926 \$2,017 \$2,093 \$2,117 \$2,013 \$833 22 AMI Replacement Meter Devices 23 Replacement AMI 1P Meters 38.886 39.042 39.231 39.457 39.699 39.965 40.210 40.491 40.862 41.248 41.630 42.015 42.418 42.829 43.234 \$28.52 \$28.52 \$28.52 \$28.52 \$28.52 \$28.52 \$28.52 \$28.52 \$28.52 \$28.52 \$28.52 24 Average AMI Cost / Unit - 1P Meter \$28.52 \$28.52 \$28.52 \$28.52 40.9% 40.7% 18.2% 8.8% 7.3% 7.3% 7.3% 7.2% 7.2% 7.2% 7.2% 25 Units covered by Warranty - 1P Meter 41.7% 28.1% 7.3% 7.3% \$655 \$664 \$809 \$926 \$1,039 \$1,063 \$1,070 \$1,080 \$1,091 \$1,101 \$1,122 \$1,133 \$1,144 26 AMI Replacement Meter Devices \$649 \$1,112 27 Total AMI Meter Devices \$1,416 \$1,483 \$1,764 \$2,019 \$2,192 \$2,491 \$2,115 \$2,889 \$3,055 \$3,061 \$3,027 \$3,128 \$3,215 \$3,250 \$3,158 \$3,608 \$4,403 28 Incremental SMU Meter Devices \$461 \$572 \$1,152 \$2,545 \$4,822 \$5,546 \$5,802 \$5,824 \$5,787 \$5,948 \$6,088 \$6,153 \$6,031 29 To Workpaper 2 30 Electric Meters \$243 \$333 \$836 \$2,198 \$3,245 \$4,406 \$4,101 \$5,025 \$5,236 \$5,259 \$5,235 \$5,370 \$5,488 \$5,546 \$5,453 \$239 \$315 \$347 \$363 \$302 \$566 31 Electric Communication Devices \$218 \$416 \$521 \$565 \$552 \$578 \$600 \$607 \$577 \$1,152 \$2,545 \$3,608 \$4,822 \$4,403 \$6,031 32 Meter Devices Subtotal \$461 \$572 \$5,546 \$5,802 \$5,824 \$5,787 \$5,948 \$6,088 \$6,153 33 Incremental O&M 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 34 HAN Bridge/Repeater Costs \$0 \$0 \$0 \$0 \$0 **\$**0 \$0 \$0 \$0 \$0 \$0 35 Incremental Replacement Units 6,405 6,430 6,462 6,499 6,539 6,582 6,623 6,669 6,730 6,794 6,857 6,920 6,986 7,054 7,121 \$125.39 \$157.18 36 Labor Cost per Unit \$103.32 \$106.71 \$110.21 \$113.82 \$117.56 \$121.41 \$129.51 \$133.75 \$138.14 \$142.67 \$147.35 \$152.19 \$162.33 \$0 \$0 \$0 37 Meter Device Maintenance \$662 \$686 \$712 \$740 \$769 \$799 \$830 \$864 \$900 \$939 \$978 \$1,020 \$1,063 \$1,109 \$1,156 \$0 \$0 38 HAN Gateway Device Maintenance \$0 \$0 \$0 \$0 39 Network Ops Costs \$276 \$149 \$154 \$159 \$164 \$169 \$175 \$181 \$187 \$193 \$199 \$206 \$213 \$220 \$227 \$234 \$242 \$250 \$258 \$267 40 Call Center Costs \$0 41 Data Center Ops Costs \$1,500 \$750 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 42 Incremental SMU O&M \$2,311 \$1,590 \$871 \$904 \$938 \$974 \$1,011 \$1,050 \$1,093 \$1,138 \$1,184 \$1,232 \$1,283 \$1,336 \$1,390 \$242 \$250 \$258 \$267 \$276 \$871 \$1,093 \$250 43 To Workpaper 2 \$2,311 \$1,590 \$904 \$938 \$974 \$1,011 \$1,050 \$1,138 \$1,184 \$1,232 \$1,283 \$1,336 \$1,390 \$242 \$258 \$267 \$276

Pacific Gas and Electric Company Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013 WORKPAPER 8 - Updated Meter Devices and Operations and Maintenance Costs

Line Meter Devices and O&M per SMU																				
44 Incremental Meter Devices	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
45 SMU Growth Meter Devices 46 New Meters (Growth Volume)	92,823	83,467	84,724	86,347	87,302	88,259	89,219	90,553	91,532	92,896	93,896	95,290	96,706	98,142	99,600					
47 Average Upgrade All Meters	\$58.76	\$58.80	\$57.43	\$56.40	\$54.82	\$53.26	\$51.72	\$50.52	\$49.03	\$47.90	\$46.46	\$45.39	\$44.34	\$43.33	\$42.35					
48 Cost per Unit Disconnect	\$23.38	\$23.36	\$22.66	\$21.89	\$21.32	\$20.76	\$20.22	\$19.61	\$19.10	\$18.53	\$18.05	\$17.51	\$16.99	\$16.48	\$15.99					
49 HAN 50 Average	\$10.81 \$92.94	\$10.81 \$92.97	\$10.48 \$90.57	\$10.17 \$88.46	\$9.86 \$86.00	\$9.57 \$83.59	\$9.28 \$81.22	\$9.00 \$79.14	\$8.73 \$76.87	\$8.47 \$74.90	\$8.21 \$72.73	\$7.97 \$70.87	\$7.73 \$69.06	\$7.50 \$67.31	\$7.27 \$65.62					
51 SMU Growth Meter Devices	\$8,627	\$7,760	\$7,674	\$7,638	\$7,508	\$7,377	\$7,246	\$7,166	\$7,036	\$6,958	\$6,829	\$6,753	\$6,679	\$6,606	\$6,535					
52 SMU Replacement Meter Devices																				
53 Replacement SMU 1P Meters	41,176	47,967	48,686	49,417	50,158	50,911	51,675	52,450	53,237	54,036	54,847	55,670	56,505	57,353	58,213					
54 Add'l Replacements - HAN	214	314	458	699	963	1,258	1,587	2,009	2,491	3,155	3,752	4,203	4,731	5,486	5,576					
55 Average SMU Cost / Unit - 1P Meter	\$90.39	\$90.39	\$88.05	\$85.77	\$83.57	\$81.43	\$79.35	\$77.34	\$75.39	\$73.50	\$71.66	\$69.88	\$68.15	\$66.47	\$64.85					
56 Average SMU Cost / Unit - HAN only	\$23.08	\$23.08	\$23.08	\$23.08	\$23.08	\$23.08	\$23.08	\$23.08	\$23.08	\$23.08	\$23.08	\$23.08	\$23.08	\$23.08	\$23.08					
57 Units covered by Warranty - 1P Meter	100.0%	100.0%	95.1%	62.0%	35.9%	11.3%	7.3%	7.3%	7.3%	7.3%	7.3%	7.2%	7.2%	7.2%	7.2%					
58 Units covered by Warranty - HAN	100.0%	100.0%	100.0%	98.3%	62.5%	34.4%	7.9%	7.9%	7.9%	7.8%	7.8%	7.8%	7.7%	7.7%	7.7%					
59 SMU Replacement Meter Devices	\$0	\$0	\$209	\$1,613	\$2,695	\$3,697	\$3,833	\$3,802	\$3,774	\$3,749	\$3,725	\$3,698	\$3,673	\$3,654	\$3,621					
60 Total SMU Meter Devices	\$8,627	\$7,760	\$7,883	\$9,251	\$10,203	\$11,074	\$11,079	\$10,968	\$10,809	\$10,708	\$10,553	\$10,451	\$10,352	\$10,260	\$10,157					
61 AMI Growth Meter Devices 62 New Meters (Growth Volume)	92,823	83,467	84,724	86,347	87,302	88,259	89,219	90,553	91,532	92,896	93,896	95,290	96,706	98,142	99,600					
63 Average AMI Cost per Unit - All Meters	\$37.65	\$37.70	\$36.97	\$36.64	\$35.57	\$34.51	\$33.46	\$32.81	\$31.78	\$31.17	\$30.16	\$29.57	\$29.00	\$28.45	\$27.91					
64 AMI Growth Meter Devices	\$3,495	\$3,147	\$3,132	\$3,163	\$3,105	\$3,046	\$2,985	\$2,971	\$2,909	\$2,895	\$2,832	\$2,818	\$2,805	\$2,792	\$2,780					
65 AMI Replacement Meter Devices 66 Replacement AMI 1P Meters	35,353	41,183	41,801	42,429	43,065	43,711	44,367	45,033	45,709	46,395	47,091	47,797	48,514	49,242	49,981					
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67 Average AMI Cost / Unit - 1P Meter	\$28.52	\$28.52	\$27.67	\$26.84	\$26.03	\$25.25	\$24.49	\$23.76	\$23.05	\$22.35	\$21.68	\$21.03	\$20.40	\$19.79	\$19.20					
68 Units covered by Warranty - 1P Meter	40.9%	41.7%	40.7%	28.1%	18.2%	8.8%	7.3%	7.3%	7.3%	7.3%	7.3%	7.2%	7.2%	7.2%	7.2%					
69 AMI Replacement Meter Devices	\$596	\$685	\$686	\$819	\$917	\$1,006	\$1,007	\$992	\$977	\$962	\$947	\$932	\$918	\$904	\$890					
70 Total AMI Meter Devices	\$4,091	\$3,832	\$3,818	\$3,982	\$4,022	\$4,052	\$3,992	\$3,963	\$3,885	\$3,857	\$3,779	\$3,750	\$3,723	\$3,696	\$3,670					
71 Incremental SMU Meter Devices	\$4,536	\$3,928	\$4,065	\$5,269	\$6,181	\$7,022	\$7,087	\$7,006	\$6,924	\$6,851	\$6,775	\$6,700	\$6,629	\$6,564	\$6,486					
72 To Workpaper 2																				
73 Electric Meters	\$3,533	\$3,026	\$3,177	\$4,391	\$5,311	\$6,159	\$6,226	\$6,148	\$6,072	\$5,997	\$5,924	\$5,852	\$5,781	\$5,711	\$5,643					
74 Electric Communication Devices 75 Meter Devices Subtotal	\$1,003 \$4,536	\$902 \$3,928	\$888 \$4,065	\$878 \$5,269	\$869 \$6,181	\$863 \$7,022	\$862 \$7,087	\$858 \$7,006	\$852 \$6,924	\$854 \$6,851	\$851 \$6,775	\$849 \$6,700	\$848 \$6,629	\$853 \$6,564	\$843 \$6,486					
76 Incremental O&M	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
77 HAN Bridge/Repeater Costs	\$0	\$0	\$8,286	\$8,566	\$10,894	\$14,059	\$12,056	\$10,514	\$10,628	\$1,125	\$1,103	\$1,086	\$1,069	\$1,052	\$1,036	\$0	\$0	\$0	\$0	\$0
78 Incremental Replacement Units	5,823	6,783	6,885	6,988	7,093	7,200	7,308	7,417	7,528	7,641	7,756	7,872	7,991	8,111	8,232					
79 Labor Cost per Unit 80 Meter Device Maintenance	\$103.32 \$602	\$106.71 \$724	\$110.21 \$759	\$113.82 \$795	\$117.56 \$834	\$121.41 \$874	\$125.39 \$916	\$129.51 \$961	\$133.75 \$1,007	\$138.14 \$1,056	\$142.67 \$1,107	\$147.35 \$1,160	\$152.19 \$1,216	\$157.18 \$1,275	\$162.33 \$1,336	\$0	\$0	\$0	\$0	\$0
81 HAN Gateway Device Maintenance	\$23	\$724 \$36	\$759 \$55	\$88	\$034 \$128	\$177	\$234	\$311	\$1,007 \$403	\$1,050 \$525	\$1,107 \$642	\$1,160 \$739	\$1,210 \$856	\$1,275 \$1,021	\$1,067	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
82 Network Ops Costs	\$149	\$154	\$159	\$164	\$169	\$175	\$181	\$187	\$193	\$199	\$206	\$213	\$220	\$227	\$234	\$242	\$250	\$258	\$267	\$276
83 Call Center Costs	\$341	\$242	\$388	\$650	\$1,038	\$1,601	\$2,090	\$2,747	\$3,662	\$3,803	\$4,667	\$5,397	\$6,271	\$7,508	\$7,877	\$7,444	\$7,690	\$7,944	\$8,206	\$8,477
84 Data Center Ops Costs	\$1,500	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
85 Incremental SMU O&M	\$2,615	\$1,906	\$9,646	\$10,263	\$13,062	\$16,886	\$15,478	\$14,718	\$15,893	\$6,708	\$7,724	\$8,595	\$9,631	\$11,082	\$11,551	\$7,686	\$7,940	\$8,202	\$8,473	\$8,752
86 To Workpaper 2	\$2,615	\$1,906	\$9,646	\$10,263	\$13,062	\$16,886	\$15,478	\$14,718	\$15,893	\$6,708	\$7,724	\$8,595	\$9,631	\$11,082	\$11,551	\$7,686	\$7,940	\$8,202	\$8,473	\$8,752

Pacific Gas and Electric Company

Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013 WORKPAPER 9 - Updated TOU Program Costs

Notes		PVRR	[1]	[1]	[2]	[2]	[2]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]
Line Description	Line	(2008)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1 Residential TOU Pilots	35	\$11,411	\$666	\$6,961	\$3,650	\$6,760	\$3,560											
2 Default TOU and Implementation	29	\$42,636	\$0	\$373	\$0	\$13,136	\$20,855	\$8,700	\$8,779	\$8,862	\$8,948	\$9,035	\$9,118	\$9,201	\$9,285	\$9,370	\$9,456	\$9,543
3 Billing Ops	39	\$9,767		\$108	\$3,238	\$8,158	\$8,416											
4 Total (\$000)		\$63,814	\$666	\$7,441	\$6,888	\$28,054	\$32,831	\$8,700	\$8,779	\$8,862	\$8,948	\$9,035	\$9,118	\$9,201	\$9,285	\$9,370	\$9,456	\$9,543

Notes

- [1] Source: PDFA_ResidentialRatesOIR_Report_PGE_20170501.pdf, Table 9, p. 24 (for 2015-16)
 [2] Source: GRC-2017-Phl_DR_ORA_062-Q004_354558Atch01_354559.xlsx, Tab: 2015-'19 Nominal Exp Cap (for 2017-19)
 [3] Estimated at \$3/customer/year for outreach for an estimated 2,900,000 customers, with growth based on the Meter growth rate (for 2020+)

Integrated Connect/Disconnect Switch Benefits				2005 6	2006 7	2007 8	2008 9	2009 10	2010 11	2011 12	2012 13	2013 14	2014 2	2015	2016 17	2017 18		2019 20	2020 21	2021 22	2022 23	2023 24	2024 25	2025 26	2026 27	2027 28	2028 29	2029 30	2030 31
2 3 Avoided Field Visits - Revised Original AMI Projec			nd Year 2011	2005	2006	2007	2008	2009 50%	2010 100%	2011 100%	2012 100%	2013 100%	2014 100%	2015 100%	2016 100%	2017 100%	2018 100%	2019 100%	2020 100%	2021 100%	2022 100%	2023 100%	2024 100%	2025 100%	2026 100%	2027 100%	2028 100%	2029 100%	2030 100%
Average Electric Meters (000s) Average Electric Meters with AMI Activated (000s) Meters Requiring Shut Off (000) 2004 Actuals A Requiring Shut Off Meters Requiring Shut Off (000)		Electric Escalation	4,991 278 5.6%	5,054 5.6% 282	5,134 1 5.6% 286	5,216 60 5.6% 291	5,299 371 5.6% 295	5,379 1,566 5.6% 300	5,460 3,276 5.6% 304	5,542 4,791 5.6% 309	5,626 5,582 5.6% 314	5,710 5,666 5.6% 318	5,797 5,751 5.6% 323	5,884 5,838 5.6% 328	5,972 5,926 5.6% 333	6,061 6,015 5.6% 338	6,152 6,105 5.6% 343	6,243 6,196 5.6% 348	6,336 6,288 5.6% 353	6,430 6,381 5.6% 358	6,526 6,476 5.6% 364	6,622 6,572 5.6% 369	6,720 6,669 5.6% 375	6,820 6,768 5.6% 380	6,921 6,857 5.6% 386	7,024 6,959 5.6% 391	7,128 7,062 5.6% 397	7,233 7,167 5.6% 403	7,341 7,274 5.6% 409
) Percent New Locations Remote shurt-off Devices Placed (000) 2 Total Remote Shut-off Devices in Place (000) 3 Meters With Remote Shut-off Devices 4	F	Repeats	24.0%	0 0 0%	100% 0 0%	100% 0 0%	100% 0 0%	100% 43.6 44 1%	100% 180.7 224 4%	99% 253.0 477 9%	97% 122.6 600 11%	97% 0 600 11%	97% 0 600 10%	97% 0 600 10%	97% 0 600 10%	97% 0 600 10%	97% 0 600 10%	97% 0 600 10%	97% 0 600 9%	97% 0 600 9%	97% 0 600 9%	97% 0 600 9%	97% 0 600 9%	97% 0 600 9%	97% 0 600 9%	97% 0 600 9%	97% 0 600 8%	97% 0 600 8%	97% 0 600 8%
5 First Restore Power Visit 5 Subsequent Power Shut-off Visits 7 Subsequent Restore Visit 8 Cost Per Shut-off/Restore Visit 9 Fee per Restore SONP Visit 1 Fee per Restore SONP Visit 2 Severence Costs For SMR5 & Credit Clerks Performing SONP:	42%	3.3% \$ 0.0% \$	24.0% 100% 5 (32.06) 21.00	:	0.0 - - \$ (33.11) \$ \$ 21.00 \$	0 - - (34.20) \$ 21.00 \$	0 - - (35.32) \$ 21.00 \$		181 10 10 (37.67) \$ 21.00 \$ 686.0 \$	253 54 54 (38.91) \$ 21.00 \$	123 115 115 (40.18) \$ 21.00 \$		0 144 144 (42.86) \$ 21.00 \$	0 144 144 (44.27) \$ 21.00 \$	0 144 144 (45.72) \$ 21.00 \$	0 144 144 (47.22) \$ 21.00 \$	0 144 144 (48.77) \$ 21.00 \$	0 144 144 (50.37) \$ 21.00 \$											
1 Annual Benefit (\$000) 2		Annualized \$	(8,897) (in	2008 \$)	\$ - \$	- \$	- \$				(12,036.2) \$	(10,678.4) \$ (11,070.5) \$ (1	11,475.4) \$ ((11,893.6) \$	(12,325.4) \$	(12,771.5) \$ ((13,232.2) \$	(13,708.0) \$	(14,199.4) \$	(14,707.0) \$	(15,231.1) \$	(15,772.5) \$	(16,331.6) \$	(16,909.1) \$	(17,505.5) \$	(18,121.5) \$	(18,757.7) \$	(19,414.7)
3 Avoided Field Visits - SM Upgrade 4 5 Total Remote Shut-off Devices in Place (000)							196	1,009	2,688	3,866	4,314	4,503	4,614	4,668	4,722	4,897	4,940	4,987	5,034	5,080	5,128	5,177	5,228	5,275	5,275	5,275	5,275	5,275	5,275
6 Average Remote Shut-off Devices in Place (000) 7 3 % Annual Events							196	602	1,848	3,277	4,090	4,408	4,558	4,641	4,695	4,809	4,918	4,964	5,010	5,057	5,104	5,152	5,202	5,252	5,275	5,275	5,275	5,275	5,275
yo vultual Events SO Trips SONP Trips I TO Trips RSONP Trips					5.4% 5.3%		1.4% 4.0% 2.5% 2.7%	0.0% 4.0% 0.0% 2.7%	0.0% 4.0% 0.0% 2.7%	0.0% 4.0% 0.0% 2.7%	1.0% 4.5% 1.9% 3.3%	0.5% 5.0% 1.2% 4.1%	0.6% 4.8% 1.5% 3.7%	0.5% 4.9% 1.5% 3.7%	0.3% 5.1% 1.3% 3.9%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%	0.4% 5.0% 1.5% 3.8%
3 Total 4 5 Number of Annual Events (000)							0.0%	1.7%	3.4%	3.4%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%
3 SO Trips 7 SONP Trips 3 TO Trips 9 RSONP Trips							- - -	- 12 - 8	- 74 - 50	- 131 - 89	39 183 78 137	21 218 53 179	28 219 70 170	25 226 71 173	15 240 63 184	19 242 72 181	20 247 74 185	20 249 74 186	20 252 75 188	20 254 76 190	20 256 76 192	21 259 77 193	21 261 78 195	21 264 79 197	21 265 79 198	21 265 79 198	21 265 79 198	21 265 79 198	21 265 79 198
7 Total 		3.3% \$	(33.15)		\$ (33.15) \$	(34.23) \$	(35.36) \$	(36.52) \$	124	(38.95) \$	437	471 (41.55) \$	487 (42.91) \$	495	501	513	525	530	535	540 (53.79) \$	545 (55.55) \$	550 (57.37) \$	555 (59.26) \$	561 (61.20) \$	563 (63.21) \$	563 (65.28) \$	563	563	563
1 SONP Trips TO Trips TO STOP Total		3.3% \$ 3.3% \$ 3.3% \$	(44.69)	:	\$ (23.79) \$ \$ (44.69) \$ \$ (38.13) \$	(24.57) \$ (46.16) \$	(25.37) \$	(26.21) \$ (49.24) \$ (42.01) \$		(52.52) \$ (44.81) \$	(28.87) \$ (54.24) \$ (46.28) \$	(29.82) \$ (56.02) \$ (47.79) \$	(30.80) \$	(31.81) \$ (59.75) \$ (50.98) \$	(32.85) \$ (61.71) \$ (52.65) \$	(33.93) \$ (63.74) \$ (54.38) \$	(35.04) \$ (65.83) \$ (56.16) \$	(36.19) \$ (67.99) \$ (58.01) \$	(37.38) \$ (70.22) \$ (59.91) \$	(38.60) \$ (72.52) \$ (61.87) \$	(74.90) \$ (63.90) \$	(41.18) \$ (77.36) \$ (66.00) \$	(42.53) \$ (79.89) \$ (68.16) \$	(43.92) \$ (82.52) \$ (70.40) \$	(45.36) \$ (85.22) \$ (72.71) \$	(46.85) \$ (88.02) \$ (75.09) \$	(48.39) \$ (90.90) \$ (77.56) \$	(93.89) \$ (80.10) \$	(96.97) (82.73)
Care Customers	Straight Overtime Straight	30.0% 30.0% 70.0%	65.0% 35.0% 65.0%	19.5% 10.5% 45.5%				SSS	20.00 \$ 30.00 \$ 25.00 \$	29.00 \$	24.00 \$ 29.00 \$ 30.00 \$	29.00 \$	19.50 \$ 21.00 \$ 24.50 \$	19.50 \$ 21.00 \$ 24.50 \$		11.25 \$ 11.25 \$ 17.50 \$	11.25 \$ 11.25 \$ 17.50 \$		11.25 \$	11.25 \$	11.25 \$	11.25 \$	11.25 \$ 11.25 \$ 17.50 \$	11.25 \$		11.25 \$	11.25 \$	11.25 \$	11.25
	Overtime Blended	70.0% 100.0%	35.0% 100.0%	24.5% 100.0%				\$	37.50 \$ 27.61 \$ \$		36.00 \$ 30.20 \$ - \$	36.00 \$ 30.20 \$ - \$	26.00 \$ 23.53 \$ 6.67 \$	26.00 \$ 23.53 \$ 6.67 \$	26.00 \$ 23.53 \$ 6.67 \$	17.50 \$ 15.63 \$ 14.57 \$	17.50 \$ 15.63 \$ 14.57 \$	17.50 \$ 15.63 \$ 14.57 \$	15.63 \$	17.50 \$ 15.63 \$ 14.57 \$	17.50 \$ 15.63 \$ 14.57 \$	15.63 \$	17.50 \$ 15.63 \$ 14.57 \$	15.63 \$		15.63 \$	15.63 \$	15.63 \$	17.50 15.63 14.57
6 7 Total Avoided Cost (\$000)																													
3 SO Trips 3 SONP Trips						\$	- \$ - \$	(316.5) \$	(2,005.8) \$	(3,672.7) \$	(5,277.1) \$	(6,512.4) \$	(6,753.4) \$ ((7,203.8) \$	(7,887.1) \$	(8,198.8) \$	(8,659.4) \$	(9,025.5) \$	(9,409.5) \$	(9,808.0) \$	(10,223.6) \$	(10,660.0) \$	(11,116.6) \$	(11,589.5) \$	(12,024.2) \$	(12,418.6) \$	(1,422.7) \$ (12,825.9) \$	(13,246.6) \$	(13,681.1)
9 SONP Trips 170 Trips I RSONP Trips Total Fee per Restore SONP Visit	96.2%	0.0%				\$ \$ \$		(316.5) \$ - \$ (344.1) \$ (660.6) \$	(2,005.8) \$ - \$ (2,181.1) \$ (4,186.9) \$	(3,672.7) \$ - \$ (3,993.7) \$ (7,666.4) \$ - \$	(5,277.1) \$ (4,238.2) \$ (6,320.6) \$ (17,407.5) \$	(6,512.4) \$ (2,960.3) \$ (8,536.1) \$ (18,869.7) \$ ((6,753.4) \$ (4,023.9) \$ (8,381.1) \$ (20,359.2) \$ (21,089.3) \$	(7,203.8) \$ (4,247.5) \$ (8,798.7) \$ (21,369.7) \$ (1,107.2 \$	(7,887.1) \$ (3,859.8) \$ (9,686.1) \$ (22,100.5) \$ 1,180.2 \$	(8,198.8) \$ (4,583.3) \$ (9,821.6) \$ (23,513.2) \$ 2,531.0 \$	(8,659.4) \$ (4,840.9) \$ (10,373.5) \$ (24,834.4) \$ (2,588.4 \$	(9,025.5) \$ (5,045.5) \$ (10,812.0) \$ (25,884.1) \$ 2,612.1 \$	(9,409.5) \$ (5,260.2) \$ (11,272.1) \$ (26,985.6) \$ 2,636.8 \$	(9,808.0) \$ (5,483.0) \$ (11,749.4) \$ (28,128.4) \$ 2,661.1 \$	(10,223.6) \$ (5,715.3) \$ (12,247.3) \$ (29,320.3) \$ 2,685.8 \$	(10,660.0) \$ (5,959.3) \$ (12,770.1) \$ (30,571.8) \$ 2,711.5 \$	(11,116.6) \$ (6,214.5) \$ (13,317.0) \$ (31,881.2) \$ 2,737.8 \$	(11,589.5) \$ (6,478.9) \$ (13,883.6) \$ (33,237.6) \$ 2,763.7 \$	(12,024.2) \$ (6,721.9) \$ (14,404.3) \$ (34,484.2) \$ 2,776.3 \$	(12,418.6) \$ (6,942.4) \$ (14,876.8) \$ (35,615.3) \$ 2,776.3 \$	(12,825.9) \$ (7,170.1) \$ (15,364.7) \$ (36,783.5) \$ 2,776.3 \$	(13,246.6) \$ (7,405.3) \$ (15,868.7) \$ (37,990.0) \$	(13,681.1) (7,648.1) (16,389.2) (39,236.0)
9 SONP Trips 1 TO Trips I RSONP Trips 2 Total	96.2% 4,737		\$ (14,827) (in	2008 \$)		\$ \$ \$ \$ \$ \$ \$ \$		(316.5) \$ - \$ (344.1) \$ (660.6) \$ 228.4 \$	(2,005.8) \$ - \$ (2,181.1) \$ (4,186.9) \$ \$ 150.2 \$	(3,672.7) \$ - \$ (3,993.7) \$ (7,666.4) \$ - \$ 376.5 \$	(5,277.1) \$ (4,238.2) \$ (6,320.6) \$ (17,407.5) \$ - \$ - \$	(6,512.4) \$ (2,960.3) \$ (8,536.1) \$ (18,869.7) \$ ((6,753.4) \$ (4,023.9) \$ (8,381.1) \$ (20,359.2) \$ (21,089.3) \$	(7,203.8) \$ (4,247.5) \$ (8,798.7) \$ (1,369.7) \$ (1,107.2 \$ - \$	(7,887.1) \$ (3,859.8) \$ (9,686.1) \$ (22,100.5) \$ 1,180.2 \$ - \$	(8,198.8) \$ (4,583.3) \$ (9,821.6) \$ (23,513.2) \$ 2,531.0 \$ -	(8,659.4) \$ (4,840.9) \$ (10,373.5) \$ (24,834.4) \$ (2,588.4 \$ - \$	(9,025.5) \$ (5,045.5) \$ (10,812.0) \$ (25,884.1) \$ 2,612.1 \$	(9,409.5) \$ (5,260.2) \$ (11,272.1) \$ (26,985.6) \$ 2,636.8 \$ - \$	(9,808.0) \$ (5,483.0) \$ (11,749.4) \$ (28,128.4) \$ 2,661.1 \$ - \$	(10,223.6) \$ (5,715.3) \$ (12,247.3) \$ (29,320.3) \$ 2,685.8 \$ - \$	(10,660.0) \$ (5,959.3) \$ (12,770.1) \$ (30,571.8) \$ 2,711.5 \$ - \$	(11,116.6) \$ (6,214.5) \$ (13,317.0) \$ (31,881.2) \$ 2,737.8 \$ - \$	(11,589.5) \$ (6,478.9) \$ (13,883.6) \$ (33,237.6) \$ 2,763.7 \$	(12,024.2) \$ (6,721.9) \$ (14,404.3) \$ (34,484.2) \$ 2,776.3 \$ - \$	(12,418.6) \$ (6,942.4) \$ (14,876.8) \$ (35,615.3) \$ 2,776.3 \$	(12,825.9) \$ (7,170.1) \$ (15,364.7) \$ (36,783.5) \$	(13,246.6) \$ (7,405.3) \$ (15,868.7) \$ (37,990.0) \$ 2,776.3 \$ - \$	(13,681.1) (7,648.1) (16,389.2) (39,236.0) 2,776.3
9 SONP Trips 170 Trips RSONP Trips RSONP Trips Total Total Severence Costs For SMRs & Credit Clerks Performing SONPs Total Avoided Cost (\$000) Total Avoided Field Visits (\$000)					PVRR '08	\$		(316.5) \$ - \$ (344.1) \$ (660.6) \$ 228.4 \$ (432.3) \$ - \$	(2,005.8) \$ - \$ (2,181.1) \$ (4,186.9) \$ 150.2 \$ (4,036.8) \$	(3,672.7) \$ - \$ (3,993.7) \$ (7,666.4) \$ - \$ 376.5 \$ (7,289.9) \$ - \$	(5,277.1) \$ (4,238.2) \$ (6,320.6) \$ (17,407.5) \$ (17,407.5) \$ (17,407.5) \$ (5,371.2) \$	(6,512.4) \$ (2,960.3) \$ (8,536.1) \$ (18,869.7) \$ (\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(6,753.4) \$ (4,023.9) \$ (4,023.9) \$ (8,381.1) \$ (20,359.2) \$ (21,089.3) \$ (21,089.3) \$ (21,089.5	(7,203.8) \$ (4,247.5) \$ (8,798.7) \$ (1,369.7) \$ (1,107.2 \$	(7,887.1) \$ (3,859.8) \$ (9,686.1) \$ (22,100.5) \$ 1,180.2 \$	(8,198.8) \$ (4,583.3) \$ (9,821.6) \$ (23,513.2) \$ 2,531.0 \$ (20,982.2) \$ (8,656.7) \$	(8,659.4) \$ (4,840.9) \$ (10,373.5) \$ (24,834.4) \$ (2,588.4) \$ (22,246.1) \$ (9,474.6) \$ ((9,025.5) \$ (5,045.5) \$ (10,812.0) \$ (25,884.1) \$ 2,612.1 \$ (23,272.0) \$ (10,039.8) \$	(9,409.5) \$ (5,260.2) \$ (11,272.1) \$ (26,985.6) \$ 2,636.8 \$ (24,348.9) \$ (10,640.9) \$	(9,808.0) \$ (5,483.0) \$ (11,749.4) \$ (28,128.4) \$ 2,661.1 \$ - \$ (25,467.3) \$ (11,267.8) \$	(10,223.6) \$ (5,715.3) \$ (12,247.3) \$ (29,320.3) \$ 2,685.8 \$ (26,634.5) \$ (11,927.5) \$	(10,660.0) \$ (5,959.3) \$ (12,770.1) \$ (30,571.8) \$ 2,711.5 \$ (27,860.3) \$ (12,629.1) \$	(11,116.6) \$ (6,214.5) \$ (13,317.0) \$ (31,881.2) \$ 2,737.8 \$ - \$ (29,143.3) \$ (13,370.8) \$	(11,589.5) \$ (6,478.9) \$ (13,883.6) \$ (33,237.6) \$ 2,763.7 \$ (30,473.9) \$ (14,142.3) \$	(12,024.2) \$ (6,721.9) \$ (14,404.3) \$ (34,484.2) \$ 2,776.3 \$ (31,708.0) \$ (14,798.8) \$	(12,418.6) \$ (6,942.4) \$ (14,876.8) \$ (35,615.3) \$ 2,776.3 \$ (32,839.0) \$ (15,333.5) \$	(12,825.9) \$ (7,170.1) \$ (15,364.7) \$ (36,783.5) \$ 2,776.3 \$ (34,007.2) \$ (15,885.7) \$	(13,246.6) \$ (7,405.3) \$ (15,868.7) \$ (37,990.0) \$ 2,776.3 \$ - \$ (35,213.7) \$ (16,456.0) \$	(13,681.1) (7,648.1) (16,389.2) (39,236.0) 2,776.3 (36,459.8) (17,045.1)
9 SONP Trips 1 To Trips 1 To Trips RSONP Trips Total 5 Fee per Restore SONP Visit 5 Severence Costs For SMRs & Credit Clerks Performing SONPs Total Avoided Cost (\$000) 6 Incremental Avoided Field Visits (\$000 8 Average Remote Shut-off Devices in Place (000) 9 Annual SONP Events		Annualized \$			PVRR '08	\$	- \$ - \$ - \$ - \$ - \$	(316.5) \$ - \$ (344.1) \$ (660.6) \$ 228.4 \$ (432.3) \$ - \$ 301	(2,005.8) \$ - \$ (2,181.1) \$ (4,186.9) \$ \$ 150.2 \$ (4,036.8) \$ - \$ 1,848	(3,672.7) \$ \$ (3,993.7) \$ (7,666.4) \$ \$ 376.5 \$ (7,289.9) \$ - \$ 3,277	(5,277.1) \$ (4,238.2) \$ (6,320.6) \$ (17,407.5) \$ - \$ - \$ (17,407.5) \$ (5,371.2) \$ 4,090	(6,512.4) \$ (2,960.3) \$ (2,960.3) \$ (8,536.1) \$ (18,869.7) \$ (- \$ - \$ (18,869.7) \$ ((8,191.3) \$ 4,408	(6,753.4) \$ (4,023.9) \$ (4,023.9) \$ (6,381.1) \$ (20,359.2) \$ (21,089.3) \$ (21,089.3) \$ (21,089.3) \$ (8,199.5) \$ (4,558)	(7,203.8) \$ (4,247.5) \$ (8,798.7) \$ (1,107.2 \$	(7,887.1) \$ (3,859.8) \$ (9,686.1) \$ (22,100.5) \$ 1,180.2 \$ (20,920.3) \$ (9,026.8) \$ 4,695	(8,198.8) \$ (4,583.3) \$ (9,821.6) \$ (23,513.2) \$ 2,531.0 \$ 2,531.0 \$ (20,982.2) \$ (8,656.7) \$ 4,809	(8,659.4) \$ (4,840.9) \$ (4,840.9) \$ (24,834.4) \$ (2,4834.4) \$ (2,588.4) \$ (22,246.1) \$ (9,474.6) \$ (4,918)	(9,025.5) \$ (5,045.5) \$ (10,812.0) \$ (25,884.1) \$ 2,612.1 \$ - \$ (23,272.0) \$ (10,039.8) \$ 4,964	(9,409.5) \$ (5,260.2) \$ (11,272.1) \$ (26,985.6) \$ 2,636.8 \$ - \$ (24,348.9) \$ (10,640.9) \$ 5,010	(9,808.0) \$ (5,483.0) \$ (11,749.4) \$ (28,128.4) \$ 2,661.1 \$ - \$ (25,467.3) \$ (11,267.8) \$ 5,057	(10,223.6) \$ (5,715.3) \$ (12,247.3) \$ (29,320.3) \$ 2,685.8 \$ \$ \$ (26,634.5) \$ (11,927.5) \$ 5,104	(10,660.0) \$ (5,959.3) \$ (12,770.1) \$ 2,711.5 \$ 2,711.5 \$ (27,860.3) \$ (12,629.1) \$ 5,152	(11,116.6) \$ (6,214.5) \$ (13,317.0) \$ (31,881.2) \$ 2,737.8 \$ - \$ (29,143.3) \$ (13,370.8) \$ 5,202	(11,589.5) \$ (6,478.9) \$ (13,883.6) \$ (33,237.6) \$ 2,763.7 \$ (30,473.9) \$ (14,142.3) \$ 5,252	(12,024.2) \$ (6,721.9) \$ (14,404.3) \$ (14,404.3) \$ (34,484.2) \$ 2,776.3 \$ - \$ (31,708.0) \$ (14,798.8) \$ 5,275	(12,418.6) \$ (6,942.4) \$ (14,876.8) \$ (14,876.8) \$ 2,776.3 \$ 2,776.3 \$ (32,839.0) \$ (15,333.5) \$ 5,275	(12,825.9) \$ (7,170.1) \$ (15,864.7) \$ (36,783.5) \$ (2,776.3) \$ (34,007.2) \$ (15,885.7) \$ 5,275	(13,246.6) \$ (7,405.3) \$ (15,868.7) \$ (15,868.7) \$ (37,990.0) \$ 2,776.3 \$ - \$ (35,213.7) \$ (16,456.0) \$ 5,275	(13,681.1) (7,648.1) (16,389.2) (39,236.0) 2,776.3 - (36,459.8) (17,045.1) 5,275
9 SONP Trips 170 Trips RSONP Trips RSONP Trips 170tal Fee per Restore SONP Visit Severence Costs For SMRs & Credit Clerks Performing SONPs 170tal Avoided Cost (\$000) 7 7 8 9 9 Average Remote Shut-off Devices in Place (000)		Annualized \$			PVRR '08	\$		(316.5) \$ - \$ (344.1) \$ (660.6) \$ 228.4 \$ (432.3) \$ - \$	(2,005.8) \$ - \$ (2,181.1) \$ (4,186.9) \$ 150.2 \$ (4,036.8) \$	(3,672.7) \$ - \$ (3,993.7) \$ (7,666.4) \$ - \$ 376.5 \$ (7,289.9) \$ - \$	(5,277.1) \$ (4,238.2) \$ (6,320.6) \$ (17,407.5) \$ (17,407.5) \$ (17,407.5) \$ (5,371.2) \$	(6,512.4) \$ (2,960.3) \$ (8,536.1) \$ (18,869.7) \$ (\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(6,753.4) \$ (4,023.9) \$ (4,023.9) \$ (8,381.1) \$ (20,359.2) \$ (21,089.3) \$ (21,089.3) \$ (21,089.5	(7,203.8) \$ (4,247.5) \$ (8,798.7) \$ (1,369.7) \$ (1,107.2 \$	(7,887.1) \$ (3,859.8) \$ (9,686.1) \$ (22,100.5) \$ 1,180.2 \$	(8,198.8) \$ (4,583.3) \$ (9,821.6) \$ (23,513.2) \$ 2,531.0 \$ (20,982.2) \$ (8,656.7) \$	(8,659.4) \$ (4,840.9) \$ (10,373.5) \$ (24,834.4) \$ (2,588.4) \$ (22,246.1) \$ (9,474.6) \$ ((9,025.5) \$ (5,045.5) \$ (10,812.0) \$ (25,884.1) \$ 2,612.1 \$ (23,272.0) \$ (10,039.8) \$	(9,409.5) \$ (5,260.2) \$ (11,272.1) \$ (26,985.6) \$ 2,636.8 \$ (24,348.9) \$ (10,640.9) \$	(9,808.0) \$ (5,483.0) \$ (11,749.4) \$ (28,128.4) \$ 2,661.1 \$ - \$ (25,467.3) \$ (11,267.8) \$	(10,223.6) \$ (5,715.3) \$ (12,247.3) \$ (29,320.3) \$ 2,685.8 \$ (26,634.5) \$ (11,927.5) \$	(10,660.0) \$ (5,959.3) \$ (12,770.1) \$ (30,571.8) \$ 2,711.5 \$ (27,860.3) \$ (12,629.1) \$	(11,116.6) \$ (6,214.5) \$ (13,317.0) \$ (31,881.2) \$ 2,737.8 \$ - \$ (29,143.3) \$ (13,370.8) \$	(11,589.5) \$ (6,478.9) \$ (13,883.6) \$ (33,237.6) \$ 2,763.7 \$ (30,473.9) \$ (14,142.3) \$	(12,024.2) \$ (6,721.9) \$ (14,404.3) \$ (34,484.2) \$ 2,776.3 \$ (31,708.0) \$ (14,798.8) \$	(12,418.6) \$ (6,942.4) \$ (14,876.8) \$ (35,615.3) \$ 2,776.3 \$ (32,839.0) \$ (15,333.5) \$	(12,825.9) \$ (7,170.1) \$ (15,364.7) \$ (36,783.5) \$ 2,776.3 \$ (34,007.2) \$ (15,885.7) \$	(13,246.6) \$ (7,405.3) \$ (15,868.7) \$ (37,990.0) \$ 2,776.3 \$ - \$ (35,213.7) \$ (16,456.0) \$	(13,681.1) (7,648.1) (16,389.2) (39,236.0) 2,776.3 (36,459.8) (17,045.1)
3 SONP Trips 1 To Trips 1 To Trips 1 Total 1 Fee per Restore SONP Visit 4 Severence Costs For SMRs & Credit Clerks Performing SONPs 1 Total 5 Fee per Restore SONP Visit 5 Severence Costs For SMRs & Credit Clerks Performing SONPs 1 Total Avoided Cost (\$000) 6 7 Incremental Avoided Field Visits (\$000 8 8 Average Remote Shut-off Devices in Place (000) 1		Annualized \$			PVRR '08	\$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	(316.5) \$ - \$ (344.1) \$ (660.6) \$ 228.4 \$ (432.3) \$ - \$ 301 3.4% 2.1%	(2,005.8) \$ \$ (2,181.1) \$ (4,186.9) \$ \$ 150.2 \$ (4,036.8) \$ - \$ 1,848	(3,672.7) \$ -	(5,277.1) \$ (4,238.2) \$ (4,238.2) \$ (6,320.6) \$ (17,407.5) \$ - \$ \$ (17,407.5) \$ - \$ \$ (17,407.5) \$ + \$ 4,090 \$ 3.4% \$ 2.1%	(6,512.4) \$ (2,960.3) \$ (2,960.3) \$ (8,536.1) \$ (18,869.7) \$ ((6,753.4) \$ (4,023.9) \$ (4,023.9) \$ (6,381.1) \$ (20,359.2) \$ (21,089.3) \$ - \$ 19,270.0) \$ (2,199.5) \$ (4,558	(7,203.8) \$ (4,247.5) \$ (8,798.7) \$ (1,107.2 \$	(7,887.1) \$ (3,859.8) \$ (9,686.1) \$ (22,100.5) \$ 1,180.2 \$	(8,198.8) \$ (4,583.3) \$ (4,583.3) \$ (29,821.6) \$ (23,513.2) \$ (25,513.0) \$ (20,982.2) \$ (4,809) \$ (4,809) \$ (4,809)	(8,659.4) \$ (4,840.9) \$ (4,840.9) \$ (24,834.4) \$ (2,588.4) \$ (2,588.4) \$ (22,246.1) \$ (9,474.6) \$ (4,918) \$ (4,918) \$ (3,5%) \$ (4,918) \$	(9,025.5) \$ (5,045.5) \$ (10,812.0) \$ (25,884.1) \$ 2,612.1 \$ - \$ (23,272.0) \$ (10,039.8) \$ 4,964 \$ 3.4% \$ 3.5%	(9,409.5) \$ (5,260.2) \$ (5,260.2) \$ (26,985.6) \$ 2,636.8 \$ - \$ (24,348.9) \$ (10,640.9) \$ 5,010	(9,808.0) \$ (5,483.0) \$ (5,483.0) \$ (11,749.4) \$ (28,128.4) \$ 2,661.1 \$ - \$ (25,467.3) \$ (11,267.8) \$ 5,057	(10,223.6) \$ (5,715.3) \$ (12,247.3) \$ (29,320.3) \$ 2,685.8 \$ (26,634.5) \$ (11,927.5) \$ 5,104	(10,660.0) \$ (5,959.3) \$ (12,770.1) \$ (30,571.8) \$ 2,711.5 \$ - \$ (27,860.3) \$ (12,629.1) \$ 5,152	(11,116.6) \$ (6,214.5) \$ (6,214.5) \$ (13,317.0) \$ (31,881.2) \$ 2,737.8 \$ - \$ (29,143.3) \$ (13,370.8) \$ 5,202	(11,589.5) \$ (6,478.9) \$ (13,883.6) \$ (33,237.6) \$ 2,763.7 \$ - \$ (30,473.9) \$ (14,142.3) \$ 5,252	(12,024.2) \$ (6,721.9) \$ (14,404.3) \$ (34,484.2) \$ 2,776.3 \$ - \$ (31,708.0) \$ (14,798.8) \$ 5,275	(12,418.6) \$ (6,942.4) \$ (14,876.8) \$ (35,615.3) \$ 2,776.3 \$ - \$ (32,839.0) \$ (15,333.5) \$ 5,275	(12,825.9) \$ (7,170.1) \$ (7,170.1) \$ (15,364.7) \$ (36,783.5) \$ (36,783.5) \$ (2,776.3) \$ (34,007.2) \$ (15,885.7) \$ 5,275	(13,246.6) \$ (7,405.3) \$ (75,868.7) \$ (37,990.0) \$ 2,776.3 \$ - \$ (35,213.7) \$ (16,456.0) \$ 5,275	(13,681.1) (7,648.1) (16,389.2) (39,236.0) 2,776.3 (36,459.8) (17,045.1) 5,275
3 SONPs Worked 3 SONPs Worked 4 Total Eligible 5 SonPs Worked 5 SonPs Worked 5 SonPs Worked 6 SonPs Worked 6 SonPs Worked 7 Total SonPs Worked 7 Total Avoided Field Visits (\$000) 8 Average Remote Shut-off Devices in Place (000) 9 Annual SonP Events 7 SonPs Worked 8 Total Eligible 7 Number of Annual Events (000) 8 SonPs Worked 9 Total Eligible 7 SonPs Worked 9 Total Eligible SonPs 10 Improved Cash Flows (\$000)		Annualized \$			PVRR '08	\$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	(316.5) \$ \$ (344.1) \$ (660.6) \$ 228.4 \$ (432.3) \$ - \$ 301 \$ 3.4% \$ 2.1%	(2,005.8) \$ \$ \$ \$ (2,181.1) \$ (4,186.9) \$ \$ \$ 150.2 \$ (4,036.8) \$ \$ 1,848 \$ 3.4% \$ 2.1% \$ 63	(3,672.7) \$ (3,993.7) \$ (7,666.4) \$ 376.5 \$ (7,289.9) \$ - \$ 3,277 3,4% 2,1% 5,5%	(5,277.1) \$ (4,238.2) \$ (6,320.6) \$ (17,407.5) \$ - \$ \$ (17,407.5) \$ (1	(6,512.4) \$ (2.960.3) \$ (8,536.1) \$ (18,869.7) \$ (6,536.1) \$ (18,869.7) \$ (6,536.1) \$ (18,869.7) \$ (6,191.3) \$ 4,408 \$ 3.4% \$ 2.3% \$ 5.7%	(6.753.4) \$ (4.023.9) \$ (4.023.9) \$ (4.023.9) \$ (2.0359.2	(7, 203.8) \$ (4,247.5) \$ (4,247.5) \$ (8,798.7) \$ (1,107.2) \$ \$ (8,787.1) \$ (8,787.1) \$ 4,641 \$ 3.4% \$ 3.3% \$ 6.7%	(7,887.1) \$ (3,859.8) \$ (3,859.8) \$ (9,888.1) \$ (22,100.5) \$ 1,180.2 \$ (20,920.3) \$ (9,026.8) \$ 4,695 3.4% 3.5% 6.9%	(8.198.8) \$ (4.583.3) \$ (9.821.6) \$ (23.513.2) \$ (25.513.2) \$ (20.982.2) \$ (4.656.7) \$ (4.	(8,659,4) \$ (4,840,9) \$ (4,840,9) \$ (4,840,9) \$ (24,834,4) \$ (25,688,4) \$ (22,246.1) \$ (9,474.6) \$ (4,918)	(9.025.5) \$ (5.045.5) \$ (5.045.5) \$ (5.045.5) \$ (7.045.6) \$ (7.045	(9,409.5) \$ (5,260.2) \$ (5,260.2) \$ (5,260.2) \$ (711,272.1) \$ (26,985.6) \$ (24,348.9) \$ (24,348.9) \$ (10,640.9) \$ 5,010 \$ 3.4% \$ 3.5% \$ 6.9% \$ 171 \$ 175 \$ 346 \$ 161	(9,808.0) \$ (5,483.0) \$ (11,749.4) \$ (28,128.4) \$ (28,128.4) \$ (28,128.4) \$ (25,467.3) \$ (11,267.8) \$ 5.057 \$ (3.4% 5.9% 6.9% 172 177 349	(10,223.6) \$ (5,715.3) \$ (12,247.3) \$ (29,320.3) \$ (29,320.3) \$ (26,6834.5) \$ (11,927.5) \$ 5,104 \$ 3.4% \$ 3.5% \$ 6.9% \$ 174 \$ 179 \$ 352	(10,660.0) \$ (10,770.1) \$ (10,770.1) \$ (12,770.1) \$ (27,716.5) \$ 2,711.5 \$ (27,860.3) \$ (12,629.1) \$ 5,152 \$ (13,639.6) \$ (19,629.1) \$ 175 \$ 180 \$ 356 \$ 166	(11,116.6) \$ (6,214.5) \$ (6,214.5) \$ (6,214.5) \$ (6,214.5) \$ (13,317.0) \$ (31,881.2) \$ 2,737.8 \$ (29,143.3) \$ (29,143.3) \$ 5,202 \$ 3.4% \$ 3.5% \$ 6.9% \$ 177 \$ 182 \$ 359 \$ 167	(11,589.5) \$ (6,478.9) \$ (6,478.9) \$ (13,883.6) \$ (33,237.6) \$ (37,63.7) \$ (30,473.9) \$ (14,142.3) \$ 5,252 \$ 3.4% \$ 3.5% \$ 6.9% \$ 179 \$ 184 \$ 363 \$ 169	(12,024.2) \$ (6,721.9) \$ (6,721.9) \$ (6,721.9) \$ (714.404.3) \$ (714.404.2) \$ 2.776.3 \$ (31,708.0) \$ (31,708.0) \$ 5.275 \$ (31,708.0) \$ 6.9% \$ 180 \$ 185 \$ 364 \$ 169	(12.418.6) \$ (6,942.4) \$ (14.876.8) \$ (14.876.8) \$ (35.615.3) \$ 2.776.3 \$ (35.615.3) \$ 2.776.3 \$ (35.615.3) \$ 5.275 \$ (32.839.0) \$ (15.333.5) \$ 5.275 \$ (34.839.0) \$ (15.333.5) \$ 6.9% \$ (18.855.364) \$ (18.855.364) \$ (18.855.364) \$ (18.855.364) \$ (18.955.364) \$ ((12,825.9) \$ (7,170.1) \$ (7,170.1) \$ (15,384.7) \$ (36,783.5) \$ (36,783.5) \$ (34,007.2) \$ (34,007.2) \$ (34,007.2) \$ (15,885.7) \$ (34,007.2) \$ (15,885.7) \$ (34,007.2) \$ (15,885.7) \$ (34,007.2) \$ (15,885.7) \$ (34,007.2) \$ (15,885.7) \$ (34,007.2) \$ (15,885.7) \$ (34,007.2) \$ (15,885.7) \$ (34,007.2) \$ (15,885.7) \$ (15,885	(13,246.6) \$ (7.405.3) \$ (15,868.7) \$ (37,990.0) \$ 2,776.3 \$ - \$ (35,213.7) \$ (16,456.0) \$ 5,275 3.4% 3.5% 6.9% 180 185 364	(13,681.1) (7,648.1) (16,389.2) (39,236.0) 2,776.3 - (36,459.8) (17,045.1) 5,275 3.4% 3.5% 6.9%
3 SONPS Trips 1 ToT rips RSONP Trips Total Fee per Restore SONP Visit Severence Costs For SMRs & Credit Clerks Performing SONPs Total Avoided Cost (\$000) Total Avoided Field Visits (\$000 Average Remote Shut-off Devices in Place (000) Average Remote Shut-off Devices in Place (000) Mannual SONP Events SONPs Worked Total Eligible Number of Annual Events (000) SONPs Worked Total Eligible SONPs Total Eligible SONPs Total Eligible SONPs SonPs Worked SONPs Not Worked Total Eligible SONPs SONPs Not Worked	4,737	Annualized \$ Annualized \$	(5,929) (in		PVRR '08	\$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	(316.5) \$ (314.1) \$ (660.6) \$ (344.1) \$ (660.6) \$ 228.4 \$ (432.3) \$ - \$ 301 \$ 3.4% \$ 2.1% \$ 5.5% \$ 10 6 6 \$ 16	(2,005.8) \$ \$ \$ (2,181.1) \$ (4,186.9) \$ \$ 150.2 \$ (4,036.8) \$ 1.848 \$ 3.4% \$ 2.1% \$ 5.5% \$ 101	(3,672.7) \$ -\$ -\$ (3,993.7) \$ (7,566.4) \$ -\$ -\$ -\$ 376.5 \$ (7,289.9) \$ -\$ 3,277 3,4% 2,1% 5,5%	(5,277.1) \$ (4,238.2) \$ (6,320.6) \$ (17,407.5) \$ (17,407.	(6,512.4) \$ (2,960.3) \$ (8,536.1) \$ (8,536.1) \$ (18,869.7) \$ (- \$ \$ - \$ (18,869.7) \$ ((8,191.3) \$ 4,408 \$ 3.4% \$ 2.3% \$ 5.7%	(6,753.4) \$ (4,023.9) \$ (4,023.9) \$ (4,023.9) \$ (2,0359.2	(7,203.8) \$ (4,247.5) \$ (8,798.7) \$ (8,798.7) \$ (8,798.7) \$ (1,369.7) \$ (1,107.2) \$ (9,787.1) \$ (8,787.1) \$ 4,641 \$ 3.4% \$ 3.3% \$ 6.7% \$ 158 \$ 152 \$ 310	(7,887.1) \$ (3,859.8) \$ (9,886.1) \$ (9,886.1) \$ (9,886.1) \$ (22,100.5) \$ 1,180.2 \$ \$ - \$ (20,90.3) \$ (9,026.8) \$ 4,695	(8.198.8) \$ (4.583.3) \$ (9.821.6) \$ (23.513.2) \$ - \$ (20.982.2) \$ (8.656.7) \$ 4.809 \$ 3.4% \$ 3.5% \$ 6.9% \$ 164 \$ 168 \$ 332	(8,659.4) \$ (4,840.9) \$ (10,373.5) \$ (24,834.4) \$ (24,834.4) \$ (25,588.4) \$ (22,246.1) \$ (4,941.6) \$ ((9.025.5) \$ (9.025.5) \$ (0.045.5) \$ (10.812.0) \$ (10.812.0) \$ (25.884.1) \$ 2.612.1 \$ (25.827.2) \$ (10.039.8) \$ 4.964 \$ 3.5% \$ 6.9% \$ 169 \$ 174 \$ 343	(9,409.5) \$ (5,260.2) \$ (11,272.1) \$ (26,985.6) \$. \$ (24,348.9) \$ (10,640.9) \$ 5,010 \$ 3.4% \$ 3.5% \$ 6.9%	(9,808.0) \$ (6,483.0) \$ (6,483.0) \$ (6,483.0) \$ (28,126.4) \$ 2.00 \$ (28,126.4) \$ 2.00 \$ (25,467.3) \$ (11,267.8) \$ 5.057 \$ 3.4% \$ 3.5% \$ 6.9% \$ 172 \$ 177 \$ 349	(10,223.6) \$ (5,715.3) \$ (12,247.3) \$ (29,320.3) \$ \$ (29,320.3) \$ \$ (26,634.5) \$ (11,927.5) \$ 5,104 \$ 3.5% 6.9% \$ 174 179 352	(10,660.0) \$ (10,270.1) \$ (10,595.3) \$ (12,770.1) \$ (30,571.8) \$ 2,711.5 \$ (27,860.3) \$ (12,629.1) \$ 5,152 \$ (3,596.6) \$ (12,629.1) \$ 6,9% \$ (12,629.1) \$ (13,629.1) \$ (14,629.1) \$ (15,629	(11,116.6) \$ (6,214.5) \$ (13,317.0) \$ (31,881.2) \$ 2,737.8 \$ (29,143.3) \$ (13,370.8) \$ 5,202 \$ 3.4% \$ 3.5% \$ 6.9% \$ 177 \$ 182 \$ 359	(11,589.5) \$ (6,478.9) \$ (6,478.9) \$ (13,883.6) \$ (33,237.6) \$ (37,63.7) \$ (30,473.9) \$ (14,142.3) \$ 5,252 \$ 3,4% \$ 3,5% \$ 6.9% \$ 179 \$ 184 \$ 363	(12 024 2) \$ (67219) \$ (14.404.3) \$ (14.404.3) \$ (34.484.2) \$ 2.776.3 \$ - \$ (31,708.0) \$ (14.798.8) \$ 5,275 \$ (34.798.6) \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ 5,275 \$ (14.798.8) \$ ((12418.6) \$ (6.942.4) \$ (14.876.8) \$ (14.876.8) \$ (35.615.3) \$ 2.776.3 \$ (32.839.0) \$ (15.333.5) \$ 5.275 \$ (32.839.0) \$ 6.9% \$ 180 \$ 185 \$ 364	(12,825.9) \$ (7,170.1) \$ (15,364.7) \$ (36,783.5) \$ (36,783.5) \$ (36,783.5) \$ (34,007.2) \$ (15,885.7) \$ 5,275 \$ (34,007.2) \$ 180 \$ 185 \$ 364	(13,246.6) \$ (7,405.3) \$ (15,868.7) \$ (37,990.0) \$ 2,776.3 \$ (35,213.7) \$ (16,456.0) \$ 5,275 \$ 3,4% \$ 3.5% \$ 6.9%	(13,681.1) (7,648.1) (16,389.2) (39,236.0) 2,776.3 (36,459.8) (17,045.1) 5,275 3,4% 3,5% 6,9%
3 SONPs Virgis 3 SONPs Trips 1 To Trips 1 RSONP Trips 1 Total 1 Fee per Restore SONP Visit 1 Severence Costs For SMRs & Credit Clerks Performing SONPs 2 Total Avoided Cost (\$000) 3 A Average Remote Shut-off Devices in Place (000) 3 Average Remote Shut-off Devices in Place (000) 3 A Annual SONP Events 2 SONPs Worked 3 SONPs Not Worked 1 Total Eligible 3 Number of Annual Events (000) 3 SONPs Not Worked 3 Total Eligible SONPs 1 Improved Cash Flows (\$000) 2 Number of Annual Events (000) 3 SONPs Worked 3 SONPs Worked 3 SONPs Not Worked 4 Total Eligible SONPs 5 Improved Cash Flows (\$000) 5 SONPs Worked	4,737 Percent Eventually 94.3%	Annualized \$ Annualized \$ / Collected Annual escalation (1.1% \$	(5,929) (in	2008 \$)	PVRR '08 \$ 524.00 \$ \$ 513.00 \$	\$ \$ \$ (\$78,101) \$	- \$ \$ - \$ \$	(316.5) \$ (314.1) \$ (660.6) \$ 228.4 \$ (432.3) \$ - \$ 301 \$ 3.4% \$ 2.1% \$ 10 6 16 \$ 16 \$ 16 \$ 541.48 \$	(2,005.8) \$ \$ (2,181.1) \$ (4,186.9) \$ \$ 150.2 \$ (4,036.8) \$ - \$ 1,848 \$ 3.4% \$ 2.1% \$ 5.5% \$ 101 \$ 59 \$ 36 \$ 95 \$ \$ 547.44 \$	(3,672.7) \$ - \$ (3,993.7) \$ (7,666.4) \$ - \$ - \$ 376.5 \$ (7,289.9) \$ - \$ 3,277 3,4% 5,5% 112 67 179 105 63 169 553,46 \$	(5,277.1) \$ (4,238.2) \$ (6,320.6) \$ (17,407.5) \$ (17,407.5) \$ (17,407.5) \$ (17,407.5) \$ (5,371.2) \$ 4,090 3.4% 2.1% 5.5% 139 84 223 131 79 211	(6,512.4) \$ (2,960.3) \$ (8,536.1) \$ (18,869.7) \$ (18,869.7) \$ (8,191.3) \$ 4,408 3.4% 2.3% 5.7% 150 101 251	(6.753.4) \$ (4.023.9) \$ (4.023.9) \$ (4.023.9) \$ (8.381.1) \$ (8.381.1) \$ (9.320.359.2) \$ (2.0.359.2) \$ (2.0.359.2) \$ (2.0.359.2) \$ (2.0.359.2) \$ (2.0.359.2) \$ (3.0.99.5) \$ (4.558.3.4%.3.0%.6.4%.155.137.292.146.129.275.137.292.146.129.275.137.292.146.129.275.137.292.146.129.275.137.292.146.129.275.137.292.146.129.275.137.292.146.129.275.146.129.275.146.146.146.146.146.146.146.146.146.146	(7,203.8) \$ (4,247.5) \$ (8,798.7) \$ (1,247.5) \$ (8,798.7) \$ (1,369.7) \$ (1,107.2) \$ (8,787.1) \$ (4,641 \$ 3.4% \$ 3.3% \$ 6.7% \$ 158 \$ 152 \$ 310 \$ 149 \$ 143 \$ 292 \$ 578.22 \$	(7,887.1) \$ (3,859.8) \$ (9,868.1) \$ (23,508.6) \$ (9,688.1) \$ (22,100.5) \$ 1,180.2 \$ \$ (20,920.3) \$ (9,026.8) \$ 4,695 \$ (9,026.8) \$ 4,695 \$ (9,026.8) \$ 4,695 \$ (9,026.8) \$ (9,	(8.198.8) \$ (4.583.3) \$ (9.821.6) \$ (23.513.2) \$ (25.513.2) \$ (25.513.2) \$ (20.982.2) \$ (4.656.7) \$ (4	(8,659,4) \$ (4,840,9) \$ (10,373,5) \$ (24,834,4) \$ (22,2848,4) \$ (22,246.1) \$ (9,474.6) \$ (4,918 3.4% 3.5% 6.9% 167 172 340 158 162 320	(9.025.5) \$ (5.045.5) \$ (5.045.5) \$ (5.045.5) \$ (5.045.5) \$ (7.045.6) \$ (7.045	(9,409.5) \$ (5,260.2) \$ (11,272.1) \$ (26,985.6) \$ (24,348.9) \$ (10,640.9) \$ 5,010 \$ 3.4% \$ 3.5% \$ 6.9% \$ 171 \$ 175 \$ 346 \$ 610.73 \$	(9,808.0) \$ (5,483.0) \$ (11,749.4) \$ (28,128.4) \$ 2 (28,128.4) \$ 2 (28,128.4) \$ 5 (25,467.3) \$ (11,267.8) \$ 5,057 \$ 3.4% \$ 6.9% \$ 172 \$ 177 \$ 349 \$ 162 \$ 167 \$ 329 \$ 617.45 \$ \$	(10,223.6) \$ (5,715.3) \$ (12,247.3) \$ (29,320.3) \$ 2,685.8 \$ -	(10,660.0) \$ (10,760.0) \$ (12,770.1) \$ (12,770.1) \$ (27,716.5) \$ 2,711.5 \$ 2,711.5 \$ (27,860.3) \$ (12,629.1) \$ 5,152 \$ (12,629.1) \$ 5,152 \$ (12,629.1) \$ 6,9% \$ (17,620.1) \$ ((11,116.6) \$ (6,214.5) \$ (6,214.5) \$ (6,214.5) \$ (6,214.5) \$ (13,317.0) \$ (31,881.2) \$ 2,737.8 \$ (29,143.3) \$ (29,143.3) \$ 5,202 \$ 3.4% \$ 3.5% \$ 6.9% \$ 177 \$ 182 \$ 359 \$ 167 \$ 172 \$ 339 \$ 638.05 \$ \$ 638.05 \$ \$	(11,589.5) \$ (6,478.9) \$ (13,883.6) \$ (33,237.6) \$ 2,763.7 \$ (30,473.9) \$ (14,142.3) \$ 5,252 3.4% 3.5% 6.9% 179 184 363 169 173 342	(12,024.2) \$ (6,721.9) \$ (6,721.9) \$ (6,721.9) \$ (714.404.3) \$ (34.496.2) \$ 2.776. \$ (31,708.0) \$ (31,708.0) \$ 5.275 \$ (31,708.0) \$ 6.9% \$ (14,798.8) \$ 6.9% \$ (14,798.8) \$ 6.9% \$ (14,798.8) \$ 6.9% \$ (14,798.8) \$ 6.9% \$ (14,798.8) \$ (14,798	(12.418.6) \$ (6.942.4) \$ (14.876.8) \$ (14.876.8) \$ (14.876.8) \$ (35.615.3) \$ 2.776.3 \$ (35.615.3) \$ 2.776.3 \$ (35.615.3) \$ 5.75 \$ (32.839.0) \$ (15.333.5) \$ 5.275 \$ (34.839.0) \$ (15.333.5) \$ 6.9% \$ (15.333.5) \$ 6.9% \$ (16.333.5) \$ (16.333.5) \$ (17.333.5	(12,825.9) \$ (7,170.1) \$ (15,984.7) \$ (15,984.7) \$ (36,783.5) \$ (34,007.2) \$ (34,007.2) \$ (15,885.7) \$ 5,275 \$ (34,007.2) \$ (15,885.7) \$ 6.9% \$ (15,885.7) \$ (15,	(13,246.6) \$ (7,405.3) \$ (15,868.7) \$ (37,990.0) \$ 2,776.3 \$ - \$ (35,213.7) \$ (16,456.0) \$ 5,275 3.4% 3.5% 6.9% 180 185 364 169 174 343	(13,681.1) (7,648.1) (16,389.2) (39,236.0) 2,776.3 - (36,459.8) (17,045.1) 5,275 3.4% 3.5% 6.9% 180 185 364
9 SONP' Trips 1 To Trips RSONP Trips 1 Total Fee per Restore SONP Visit Severence Costs For SMRs & Credit Clerks Performing SONPs 1 Total Avoided Cost (\$000) 7 Incremental Avoided Field Visits (\$000 9 Average Remote Shut-off Devices in Place (000) 9 Annual SONP Events 2 SONPs Worked 3 SONPs Not Worked 1 Total Eligible 6 Number of Annual Events (000) 7 SONPs Worked 7 Total Eligible SONPs 1 Improved Cash Flows (\$000) 1 Improved Cash Flows (\$000) 1 SONPs Worked 5 SONPs Worked 5 SONPs Worked 5 Total Eligible SONPs 7 Average O/S Balance 5 SONPs Worked 5 Total Eligible SONPs 7 Average O/S Balance 5 SONPs Worked	4,737 Percent Eventually 94.3%	Annualized \$ Annualized \$ / Collected Annual escalation (1.1% \$	Average O/S Balance 5 524.00 513.00 # of days 2 26	2008 \$)	\$ 524.00 \$	\$ \$ \$ (\$78,101) \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(316.5) \$	(2,005.8) \$ \$ \$ \$ (2,181.1) \$ (4,186.9) \$ \$ 150.2 \$ (4,036.8) \$ \$ 1,848 \$ 3.4% \$ 2.1% \$ 5.5% \$ 101	(3,672.7) \$	(5,277.1) \$ (4,238.2) \$ (6,320.6) \$ (17,407.5) \$ (17,407.	(6,512.4) \$ (2,960.3) \$ (2,960.3) \$ (2,960.3) \$ (8,536.1) \$ (18,869.7) \$ ((6,753.4) \$ (4,023.9) \$ (4,023.9) \$ (4,023.9) \$ (20,359.2) \$ (21,089.3	(7,203.8) \$ (4,247.5) \$ (8,798.7) \$ (1,247.5) \$ (8,798.7) \$ (1,369.7) \$ (1,369.7) \$ (1,107.2) \$ (8,787.1) \$ (4,641 \$ 3.4% \$ 3.3% \$ 6.7% \$ 158 \$ 152 \$ 310 \$ 149 \$ 143 \$ 292 \$ 566.08 \$ (33.7) \$	(7,887.1) \$ (3,859.8) \$ (3,859.8) \$ (3,859.8) \$ (3,859.8) \$ (22,100.5) \$ 1,180.2 \$ (22,100.5) \$ (22,100.5) \$ (3,90.26.8) \$ 4,695 \$ (4,695.4) \$ (4,695.	(8.198.8) \$ (4.583.3) \$ (9.821.6) \$ (23.513.2) \$ (25.513.2) \$ (25.513.2) \$ (20.982.2) \$ (4.656.7) \$ (4	(8,659.4) \$ (4,840.9) \$ (10,373.5) \$ (24,834.4) \$ (24,834.4) \$ (22,466.1) \$ (4,940.6) \$ (4,940.6) \$ (4,940.6) \$ (4,918.6) \$ (4	(9.025.5) \$ (9.025.5) \$ (9.025.5) \$ (9.045.5) \$ (10.812.0) \$ (25.984.1) \$ 2.612.1 \$ (25.984.1) \$ 3.272.0) \$ (10.039.8) \$ 4.964 \$ 3.4% \$ 3.5% \$ 6.9% \$ 169 \$ 174 \$ 343 \$ 604.08 \$ 591.40 \$ \$ (37.7) \$ (524.3) \$ \$ (524.3) \$ \$	(9,409.5) \$ (5,260.2) \$ (11,272.1) \$ (26,985.6) \$. \$ (24,348.9) \$ (10,640.9) \$ 5,010 \$ 3.5% 6.9% \$ 171 175 346 \$ 161 165 326 \$ 610.73 \$ 597.91 \$ (38.4) \$ (38.4) \$ (535.1) \$	(9,808.0) \$ (5,483.0) \$ (5,483.0) \$ (5,483.0) \$ (28,126.4) \$ 2 (28,126.4) \$ 2 (25,467.3) \$ (11,267.8) \$ 5.057 \$ 3.4% \$ 3.5% \$ 6.9% \$ 172 177 349 \$ 604.48 \$ \$ (39.2) \$ (546.0) \$ \$ (546.0) \$ \$ (546.0) \$ \$ (546.0) \$ \$	(10,223.6) \$ (5,715.3) \$ (12,247.3) \$ (22,320.3) \$ \$ 2,685.8 \$ \$ (26,634.5) \$ (11,927.5) \$ 5,104 \$ 3.5% 6.9% \$ 174 179 352 \$ 164 168 332 \$ 624.24 \$ 611.13 \$ (40.0) \$ (557.1) \$	(10,660.0) \$ (10,660.0) \$ (12,770.1) \$ (12,770.1) \$ (130,571.8) \$ 2.711.5 \$ \$ (27,860.3) \$ (12,629.1) \$ 5,152 \$ \$ (12,629.1) \$ 5,152 \$ \$ (15,629.1) \$ \$ (17,629.1) \$	(11,116.6) \$ (6,214.6) \$ (6,214.6) \$ (13,317.0) \$ (31,881.2) \$ 2,737.8 \$ \$ (29,143.3) \$ (13,370.8) \$ 5,202 \$	(11,589.5) \$ (6,478.9) \$ (6,478.9) \$ (13,883.6) \$ (33,237.6) \$ (37,63.7) \$ (30,473.9) \$ (14,142.3) \$ 5,252 \$ (14,142.3) \$ 5,252 \$ (14,142.3) \$ 6.9% \$ (179,184.363) \$ (179,184.363) \$ (169,173.342) \$ (42.5) \$ (592.4) \$ (42.5) \$ (592.4) \$ (592.4) \$ (592.4) \$ (43.5) \$ (6.5)	(12 (24.2) \$ (67.21.9) \$ (14.404.3) \$ (14.404.3) \$ (34.484.2) \$ 2.776.3 \$ (31.708.0) \$ (31.708.0) \$ (14.798.8) \$ 5.275 \$ (31.708.0) \$ (14.798.8) \$ 5.275 \$ (31.708.0) \$ (41.798.8) \$ 6.9% \$ (41.798.8) \$	(12418.6) \$ (6.942.4) \$ (14.876.8) \$ (14.876.8) \$ (35.615.3) \$ 2.776.3 \$ (32.839.0) \$ (15.333.5) \$ 5.275 \$ (32.839.0) \$ 6.9% \$ 180 \$ 185 \$ 364 \$ 169 \$ 174 \$ 343 \$ 659.33 \$ 645.49 \$ \$ (43.7) \$ (608.2) \$ \$ (608.2) \$ \$ \$ \$ (608.2) \$ \$ \$ \$ (608.2) \$ \$ \$ \$ \$ (608.2) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(12,825.9) \$ (7,170.1) \$ (15,364.7) \$ (15,364.7) \$ (36,783.5) \$ (36,783.5) \$ (34,007.2) \$ (15,885.7) \$ 5,275 \$ (34,007.2) \$ (15,885.7) \$ 6,9% \$ (15,885.7) \$ (15,	(13,246.6) \$ (7,405.3) \$ (15,868.7) \$ (37,990.0) \$ 2,776.3 \$ 3,75.3 \$ (35,213.7) \$ (16,456.0) \$ 5,275 3,4% 3,5% 6,9% 180 185 364 169 174 343 673.92 \$ 659.77 \$ (44.7) \$ (621.7) \$	(13,681.1) (7,648.1) (16,389.2) (39,236.0) 2,776.3 (36,459.8) (17,045.1) 5,275 3,4% 3,5% 6,9% 180 185 364
3 SONP Trips 3 SONP Trips 1 Total 1 Total Severence Costs For SMRs & Credit Clerks Performing SONPs 5 Total Avoided Cost (\$000) 3 Incremental Avoided Field Visits (\$000 3 Average Remote Shut-off Devices in Place (000) 9 & Annual SONP Events 5 SONPs Worked 5 SONPs Worked 5 Total Eligible 5 Number of Annual Events (000) 5 SONPs Worked 5 SONPs Not Worked 7 Total Eligible SONPs 6 Number of Annual Events (000) 7 SONPS Worked 8 SONPs Not Worked 7 Total Eligible SONPs 9 Improved Cash Flows (\$000) 8 Number of Annual Events (000) 8 SONPs Not Worked 9 SONPs Not Worked 9 SONPs Not Worked 1 Total Eligible SONPs 2 Present Value of Timing Shift 3 SONPs Not Worked 3 SONPs Not Worked 3 SONPs Not Worked 4 SONPs Worked 5 SONPs Worked	4,737 Percent Eventually 94.3% 94.3%	Annualized \$ Annualized \$ / Collected Annual escalation (1.1% \$ 1.1% \$ WACC 7.6% Annualized \$	Average O/S Balance 5 24.00 5 13.00 # of days 2 26	2008 \$)	\$ 524.00 \$ \$ 513.00 \$	\$ \$ \$ \$ (\$78,101) \$ 529.76 \$ 518.64 \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(316.5) \$ \$ (344.1) \$ (660.6) \$ \$ 228.4 \$ \$ (432.3) \$ \$ \$ 301 \$ 3.4% \$ 2.1% \$ 5.5% \$ 16 \$ 16 \$ 16 \$ 541.48 \$ \$ 530.12 \$ \$ (2.0) \$ \$ (16.7) \$ \$ (16.7) \$	(2,005.8) \$ \$ \$ \$ (2,181.1) \$ (4,186.9) \$ \$ 150.2 \$ (4,036.8) \$ \$ 1,848 \$ 3.4% \$ 2.1% \$ 5.5% \$ 101	(3,672.7) \$ -\$ -\$ (3,993.7) \$ (7,666.4) \$ -\$ -\$ -\$ 376.5 \$ (7,289.9) \$ -\$ 3,277 3,4% 2,1% 5,5% 112 67 179 105 63 169 553,46 \$ 541,84 \$ (22.8) \$ (186.2) \$	(5,277.1) \$ (4,238.2) \$ (6,320.6) \$ (17,407.5) \$ (17,407.	(6,512.4) \$ (2,960.3) \$ (8,536.1) \$ (18,869.7) \$ (- \$ \$ - \$ \$ (18,869.7) \$ ((8,191.3) \$ 4,408 \$ 3.4% \$ 2.3% \$ 5.7% \$ 150 101 251 \$ 142 95 237 \$ 565.70 \$ 553.83 \$ (285.7) \$ (285.7) \$	(6,753.4) \$ (4,023.9) \$ (4,023.9) \$ (4,023.9) \$ (20,359.2) \$ (21,089.3	(7,203.8) \$ (4,247.5) \$ (8,798.7) \$ (1,369	(7,887.1) \$ (3,859.8) \$ (3,859.8) \$ (3,859.8) \$ (3,859.8) \$ (22,100.5) \$ 1,180.2 \$ (22,100.5) \$ (22,100.5) \$ (3,90.26.8) \$ 4,695 \$ (4,695.4) \$ (4,695.	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3 SONP' Trips 3 SONP' Trips 1 Total 1 Total 1 Severence Costs For SMRs & Credit Clerks Performing SONPs 5 Total Avoided Cost (\$000) 3 Total Avoided Cost (\$000) 3 Annual SONP Events 2 SONPs Worked 3 SONPs Worked 3 SONPs Not Worked 5 Total Eligible SONPs 1 Improved Cash Flows (\$000) 1 Improved Cash Flows (\$000) 2 SONPs Not Worked 3 SONPs Not Worked 5 Total Eligible SONPs 1 Improved Cash Flows (\$000) 2 SONPs Worked 3 SONPs Worked 3 SONPs Worked 4 SONPs Worked 5 Total Eligible SONPs 1 Improved Cash Flows (\$000) 1 SONPs Worked 5 Total Eligible SONPs 1 Flows (\$000) 1 SONPs Worked 1 Total Eligible SONPs 1 Flows (\$000) 2 SONPs Worked 3 SONPs Worked 5 Total Eligible SONPs 1 Present Value of Timing Shift 5 SONPs Worked 5 Total Eligible SONPs 1 Present Value of Timing Shift 5 SONPs Worked 5 Total Eligible SONPs 1 Present Value of Timing Shift 5 SONPs Worked 5 Total Eligible SONPs 1 Present Value of Timing Shift 5 SONPs Worked 5 SONPs Worked 5 SONPs Worked 5 Total Eligible SONPs 1 Present Value of Timing Shift 5 SONPs Worked 5 SONPs Worked 5 SONPs Worked 5 Total Eligible SONPs 1 Reduced Bad Debt (\$000) 1 Number of Annual Events (000) 5 SONPs Not Worked 5 Total Eligible SONPs 2 Average Daily Electric Usage 4 SONPs Worked	Percent Eventually 94.3% 94.3%	Annualized \$ Annualized \$ Annualized \$ / Collected Annual escalation (1.1% \$ 1.1% \$ WACC 7.6% Annualized \$ / Written-ofl	Average O/S Balance 524.00 513.00 # of days 2 6 475) (in Average Daily Usage 52.75	2008 \$)	\$ 524.00 \$ \$ 513.00 \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ - \$ - \$	(316.5) \$ (344.1) \$ (660.6) \$ 228.4 \$ (432.3) \$ - \$ 301 3.4% 2.1% 5.5% 10 6 16 16 541.48 \$ 530.12 \$ (2.0) \$ (16.7) \$ (18.8) \$	(2,005.8) \$ \$ \$ (2,181.1) \$ (4,186.9) \$ \$ 150.2 \$ (4,036.8) \$ - \$ 1,848 \$ 3.4% \$ 2.1% \$ 5.5% \$ 101 \$ 59 36 95 \$ (12.7) \$ (103.9) \$ (116.6) \$ \$ 4 2 6 \$ 6	(3,672.7) \$ -\$ (3,993.7) \$ (7,666.4) \$ -\$ -\$ 376.5 \$ (7,289.9) \$ -\$ 3,277 3,4% 2,1% 5,5% 112 67 179 105 63 169 553,46 \$ 541,84 \$ (22.8) \$	(5,277.1) \$ (4,238.2) \$ (6,320.6) \$ (17,407.5) \$ (17,407.	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3 SONP' Trips 1 To Trips RSONP Trips 1 Total 1 Total 1 Severence Costs For SMRs & Credit Clerks Performing SONPs 1 Total Avoided Cost (\$000) 3 Incremental Avoided Field Visits (\$000) 3 Average Remote Shut-off Devices in Place (000) 9 Annual SONP Events 2 SONPs Worked 3 SONPs Not Worked 1 Total Eligible 1 Number of Annual Events (000) 1 Improved Cash Flows (\$000) 1 Improved Cash Flows (\$000) 1 Improved Cash Flows (\$000) 2 SONPs Worked 3 Total Eligible SONPs 1 Cotal Eligible SONPs 2 Present Value of Timing Shift 3 SONPs Worked 3 Total Eligible SONPs 4 Verage O/S Balance 3 SONPs Worked 5 Total Eligible SONPs 4 Present Value of Timing Shift 5 SONPs Worked 5 Total Eligible SONPs 7 Reduced Bad Debt (\$000) 8 Number of Annual Events (000) 8 SONPs Worked 5 Total Eligible SONPs 4 Present Value of Timing Shift 5 SONPs Worked 5 SONPs Not Worked 5 Total Eligible SONPs 5 Reduced Bad Debt (\$000) 8 Number of Annual Events (000) 8 SONPs Not Worked 5 Total Eligible SONPs 5 Reduced Bad Debt (\$000) 8 Number of Annual Events (000) 8 SONPs Not Worked 5 Total Eligible SONPs 5 Reduction in Eventual Write-off	Percent Eventually 94.3% 94.3%	Annualized \$ Annualized \$ / Collected Annual escalation (1.1% \$ 1.1% \$ WACC 7.6% Annualized \$ / Written-of!	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(6,512.4) \$ (6,512.4) \$ (2,960.3) \$ (8,536.1) \$ (8,536.1) \$ (8,536.1) \$ (18,689.7) \$ (\$. \$. \$. \$ (18,689.7) \$ (18,689.7) \$ (18,191.3) \$ 4,408 \$. 3.4% \$ 2.3% \$ 5.7% \$ 150 101 251 \$ 142 95 237 \$ 237 \$ 565.70 \$ 553.83 \$ (313.3) \$ (285.7) \$ (317.0) \$ 9 6 14 \$ 2.97 \$ 2.97 \$ \$ 2.97 \$	(6,753.4) \$ (4,023.9) \$ (4,023.9) \$ (4,023.9) \$ (4,023.9) \$ (4,023.9) \$ (20,359.2) \$ (21,089.3) \$ (20,359.2) \$ (21,089.3) \$ (8,199.5) \$ (8,199.5) \$ (4,558.4) \$ (4,558.4) \$ (4,558.4) \$ (4,558.4) \$ (4,558.4) \$ (4,558.4) \$ (4,558.4) \$ (4,558.4) \$ (4,558.4) \$ (4,558.4) \$ (4,558.4) \$ (4,558.4) \$ (4,558.4) \$ (4,558.4) \$ (4,588.4) \$ (4	(7,203.8) \$ (4,247.5) \$ (8,798.7) \$ (1,369	(7,887.1) \$ (3,859.8) \$ (8,868.1) \$ (9,088.1) \$ (22,100.5) \$ 1,180.2 \$ (27,00.5) \$ 1,180.2 \$ (27,00.5) \$ 1,180.2 \$ (27,00.5) \$ 1,180.2 \$ (27,00.5) \$ 1,180.2 \$ (27,00.5) \$ 1,180.2 \$ (27,00.5) \$ 1,180.2 \$ (27,00.5) \$ 1,180.2 \$ (27,00.5) \$ 1,180.2 \$ (27,00.5) \$ 1,180.2 \$ (27,00.5) \$ 1,180.2 \$ (27,00.5) \$ 1,180.2 \$ (27,00.5) \$ (27,0	(8.198.8) \$ (4.583.3) \$ (9.821.6) \$ (23.513.2) \$ - \$ (20.982.2) \$ (8.656.7) \$ 4.809 \$ 3.4% \$ 3.5% \$ 6.9% \$ 164 \$ 168 \$ 332 \$ 154 \$ 159 \$ 313 \$ 578.60 \$ \$ (35.7) \$ (497.0) \$ (532.7) \$ (497.0) \$ (532.7) \$ 10 \$ 19 \$ 3.11 \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ 3.11 \$ \$ \$ 3.11 \$ \$ 3.11 \$ \$ \$ 3.11 \$ \$ \$ 3.11 \$ \$ \$ 3.11 \$ \$ \$ 3.11 \$ \$ \$ \$ 3.11 \$ \$ \$ \$ 3.11 \$ \$ \$ \$ 3.11 \$ \$ \$ \$ 3.11 \$ \$ \$ \$ 3.11 \$ \$ \$ \$ 3.11 \$ \$ \$ \$ 3.11 \$ \$ \$ \$ \$ 3.11 \$ \$ \$ \$ 3.11 \$ \$ \$ \$ \$ 3.11 \$ \$ \$ \$ \$ 3.11 \$ \$ \$ \$ \$ 3.11 \$ \$ \$ \$ \$ 3.11 \$ \$ \$ \$ \$ \$ 3.11 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(8,659.4) \$ (4,840.9) \$ (40,840.9) \$ (10,373.5) \$ (24,834.4) \$ (22,466.1) \$ ((9,474.6) \$ (4,941.6) \$ ((9.025.5) \$ (9.025.5) \$ (5.045.5) \$ (5.045.5) \$ (10.812.0) \$ (10.812.0) \$ (10.812.0) \$ (10.812.0) \$ (10.812.0) \$ (10.812.0) \$ (10.812.0) \$ (10.039.8) \$ 4.964 \$ (10.039.8) \$ 4.964 \$ (10.039.8) \$ 4.964 \$ (10.039.8)	(9,409.5) \$ (5,260.2) \$ (11,272.1) \$ (26,985.6) \$. \$ (24,348.9) \$ (10,640.9) \$ 5,010 \$. 3,4% \$ 3,5% \$ 6.9% \$. 171 \$ 175 \$ 346 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$ 326 \$. 161 \$ 165 \$. 161 \$ 165 \$. 161 \$ 165 \$. 161 \$ 165 \$. 161 \$ 165 \$. 161 \$ 165 \$. 161 \$ 165 \$. 161 \$ 165 \$. 161 \$. 1	(9,808.0) \$ (6,483.0) \$ (6,483.0) \$ (6,483.0) \$ (16,483.0) \$ (28,126.4) \$ 2 - 8 (28,126.4) \$ 2 - 8 (25,467.3) \$ (11,267.8) \$ 5.057 \$ 3.4% \$ 3.5% \$ 6.9% \$ 172 177 \$ 349 \$ 617.45 \$ 604.48 \$ \$ (39.2) \$ (585.2) \$ (585.2) \$ 5 (585.2) \$ 10 10 20 \$ 3.24 \$ 3.24 \$ \$ 3.24 \$ \$	(10,223.6) \$ (5,715.3) \$ (12,247.3) \$ (22,320.3) \$ 2,685.8 \$ \$ (26,634.5) \$ (11,927.5) \$ 5,104 \$ 3.4% \$ 3.5% \$ 6.9% \$ 174 \$ 179 \$ 352 \$ 624.24 \$ 611.13 \$ (40.0) \$ (557.1) \$ (597.1) \$ 10 \$ 10 \$ 20 \$ 3.28 \$ 3.28 \$ \$ 3.28 \$	(10,660.0) \$ (10,500.0) \$ (12,770.1) \$ (27,770.1) \$ (30,571.8) \$ 2.711.5 \$ (27,860.3) \$ (12,629.1) \$ 5.152 \$ (12,629.1) \$ 5.152 \$ (12,629.1) \$ 5.152 \$ (12,629.1) \$ (17,600.3)	(11,116.6) \$ (6,214.5) \$ (6,214.5) \$ (6,214.5) \$ (13,317.0) \$ (31,881.2) \$ 2,737.8 \$ (29,143.3) \$ (13,370.8) \$ 5,202 \$ 3.4% \$ 3.5% \$ 6.9% \$ 177 \$ 182 \$ 359 \$ 624.65 \$ \$ (41.7) \$ (680.4) \$ (622.1) \$ (622.1) \$ 10 10 20 \$ 3.35 \$ \$ 3.35 \$ \$	(11,589.5) \$ (6,478.9) \$ (6,478.9) \$ (13,883.6) \$ (33,237.6) \$ (33,237.6) \$ (30,473.9) \$ (14,142.3) \$ 5,252 \$ (14,142.3) \$ 5,252 \$ (14,142.3) \$ 645.06 \$ 631.52 \$ (42.5) \$ (634.9) \$ (634.9) \$ (634.9) \$ \$ (634.9) \$	(12 (24.2) \$ (6.721.9) \$ (14.404.3) \$ (6.721.9) \$ (14.404.3) \$ (34.484.2) \$ 2.776.3 \$ (31,708.0) \$ (14.798.8) \$ 5.275 \$ (31,708.0) \$ (14.798.8) \$ 5.275 \$ (31,708.0) \$ (14.798.8) \$ 5.275 \$ (31,708.0) \$ (14.798.8) \$ (5.275 \$ (3.479.8) \$ (4.798.8) \$	(12418.6) \$ (6.942.4) \$ (14.876.8) \$ (14.876.8) \$ (35.615.3) \$ 2.776.3 \$ (32.839.0) \$ (15.333.5) \$ 5.275 \$ (32.839.0) \$ (15.333.5) \$ 6.9% \$ (15.333.5) \$ (43.7) \$ (608.2) \$ (651.9) \$ (651	(12,825.9) \$ (7,170.1) \$ (15,364.7) \$ (15,364.7) \$ (15,364.7) \$ (36,783.5) \$ (36,007.2) \$ (15,885.7) \$ (34,007.2) \$ (15,885.7) \$ (34,007.2) \$ (15,885.7) \$ (15,88	(13,246.6) \$ (7,406.3) \$ (15,868.7) \$ (37,990.0) \$ 2,776.3 \$ 2,776.3 \$ (35,213.7) \$ (16,456.0) \$ 5,275 3.4% 3.5% 6.9% 180 185 364 169 174 343 673.92 \$ 659.77 \$ (44.7) \$ (621.7) \$ (666.3) \$	(13,681.1) (7,648.1) (16,389.2) (39,236.0) 2,776.3 2,776.3 (36,459.8) (17,045.1) 5,275 3,4% 3,5% 6,9% 180 185 364 169 174 343 681.33 667.03 (45.1) (628.5) (673.7)
3 SONP* Trips TOT Trips RSONP Trips TOTA TOT Trips RSONP Trips Total Severence Costs For SMRs & Credit Clerks Performing SONPs Total Avoided Cost (\$000) Total Avoided Cost (\$000) Average Remote Shut-off Devices in Place (000) Average Remote Shut-off Devices in Place (000) Annual SONP Events SONPs Worked SONPs Worked Total Eligible SONPs Worked SONPs Not Worked Total Eligible SONPs Improved Cash Flows (\$000) Number of Annual Events (000) SONPs Not Worked SONPs Not Worked SONPs Not Worked Total Eligible SONPs Average O/S Balance SONPs Worked SONPs Not Worked Total Eligible SONPs Present Value of Timing Shift SONPs Not Worked Total Eligible SONPs Present Value of Timing Shift SONPs Not Worked Total Eligible SONPs SONPs Worked SONPs Not Worked Total Eligible SONPs Present Value of Timing Shift SONPs Worked SONPs Not Worked Total Eligible SONPs Preduced Bad Debt (\$000) Number of Annual Events (000) SONPs Worked SONPs Not Worked Total Eligible SONPs Reduced Bad Debt (\$000) Number of Annual Events (000) SONPs Worked SONPs Not Worked Total Eligible SONPs Reduced Bad Debt (\$000) Number of Annual Events (000) SONPs Worked SONPs Not Worked Total Eligible SONPs Reduced Bad Debt (\$000) Number of Annual Events (000) SONPs Not Worked Total Eligible SONPs Reduced Bad Debt (\$000) SONPs Not Worked Total Eligible SONPs Average Daily Electric Usage SONPs Not Worked Total Eligible SONPs	Percent Eventually 94.3% 94.3%	Annualized \$ Annualized \$ Annualized \$ / Collected Annual escalation (1.1% \$ 1.1% \$ WACC 7.6% Annualized \$ / Written-ofl Annual escalation 1.1% \$ 1.1% \$ Annual escalation 1.1% \$	Average O/S Balance 5 524.00 5 13.00 # of days 2 26 6 (475) (in Average Daily Usage 5 2.75 2.75 # of days 2 30	2008 \$)	\$ 524.00 \$ \$ 513.00 \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ - \$ -	(316.5) \$ (316.5) \$ (346.1) \$ (680.6) \$ 228.4 \$ (432.3) \$ - \$ 301 3.4% 2.1% 5.5% 10 6 16 16 10 6 16 20.0 \$ (16.7) \$ (18.8) \$ 1 2.85 \$ (32.1) \$ (30.1) \$ (33.3) \$ (33.3) \$	(2,005.8) \$ \$ (2,181.1) \$ (4,186.9) \$ \$ 150.2 \$ (4,036.8) \$ 150.2 \$ (4,036.8) \$ 1.848 \$ 101 \$ 1.848	(3,672.7) \$ - \$ (3,993.7) \$ (7,666.4) \$ - \$ (7,666.4) \$ - \$ (7,666.4) \$ - \$ - \$ 3.277 \$ 3.4% \$ 2.1% \$ 5.5% \$ 112 67 179 \$ 105 63 169 \$ 553.46 \$ 541.84 \$ \$ (22.8) \$ (20.8) \$ (20.8) \$ (20.8) \$ (20.8) \$ (20.8) \$ (20.8) \$ (30.8) \$ (30.8) \$ (34.8) \$ \$ (34.8)	(5.277.1) \$ (4.238.2) \$ (6.320.6) \$ (17.407.5) \$ (17.407.	(6,512.4) \$ (2,960.3) \$ (2,960.3) \$ (8,536.1) \$ (8,536.1) \$ (18,69.7) \$ (- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(6,753.4) \$ (4,023.9) \$ (4,023.9) \$ (8,381.1) \$ (8,381.1) \$ (4,023.9) \$ (1,089.3) \$ (1,089	(7.203.8) \$ (4.247.5) \$ (8.798.7) \$ (1.369	(7,887.1) \$ (3,859.8) \$ (9,886.1) \$ (9,886.1) \$ (9,886.1) \$ (9,086.1) \$ (9,026.8) \$ 4,695 \$ 4,	(8.198.8) \$ (4.583.3) \$ (9.821.6) \$ (23,513.2) \$ (9.821.6) \$ (23,513.2) \$ (9.821.6) \$ (20,982.2) \$ (8.656.7) \$ (4.809) \$ (3.5%) \$ (6.9%) \$ (5.20) \$ (1.5%) \$	(8,659.4) \$ (4,840.9) \$ (40,840.9) \$ (40,840.9) \$ (10,373.5) \$ (24,834.4) \$ (24,634.4) \$ (9,474.6) \$ (9,474.6) \$ (4,918.4) \$ (9,474.6) \$ (4,918.4) \$ ((9.025.5) \$ (9.025.5) \$ (9.025.5) \$ (9.025.5) \$ (5.045.5) \$ (10.812.0) \$ (25.884.1) \$ 2.612.1 \$ (25.884.1) \$ 2.612.1 \$ (25.272.0) \$ (10.039.8) \$ 4.964 \$ 3.5% \$ 6.9% \$ 169 \$ 174 \$ 343 \$ 159 \$ 164 \$ 323 \$ 604.08 \$ 591.40 \$ \$ 6.9% \$ (52.8) \$ (562.0) \$ (524.3) \$ (562.0) \$ 10 \$ 10 \$ 20 \$ 3.17 \$ \$ (524.3) \$ (562.0) \$ (697.8) \$ (69	(9,409.5) \$ (5,260.2) \$ (11,272.1) \$ (26,985.6) \$. \$ (24,348.9) \$ (24,348.9) \$. 5,010 \$. 3,4% \$. 3,5% \$ 6.9% \$. 171 \$. 175 \$. 346 \$. 161 \$. 165 \$. 326 \$. 161 \$. 73 \$. 597.91 \$. (38.4) \$. (535.1) \$. (573.5) \$. (573.5) \$. (573.5) \$. (573.5) \$. (653.1)	(9,808.0) \$ (6,483.0) \$ (6,483.0) \$ (6,483.0) \$ (16,483.0) \$ (28,126.4) \$ 2 (28,126.4) \$ 2 (25,467.3) \$ (11,267.8) \$ 5,057 \$ 3.4% \$ 3.5% \$ 6.9% \$ 172 177 \$ 349 \$ 162 167 \$ 329 \$ 617.45 \$ 604.48 \$ (39.2) \$ (546.0) \$ (585.2) \$ (585.2) \$ 10 10 20 \$ 3.24 \$ \$ (680.9) \$ (914.7) \$ \$ (880.9) \$ (914.7) \$ \$ (914.7)	(10,223.6) \$ (5,715.3) \$ (12,247.3) \$ (29,320.3) \$ \$ (29,320.3) \$ \$ (26,634.5) \$ (11,927.5) \$ 5,104 \$ 3.4% \$ 3.5% \$ 6.9% \$ 174 \$ 179 \$ 352 \$ 66.634.5) \$ (40.0) \$ (557.1) \$ (597	(10,660.0) \$ (5,959.3) \$ (12,770.1) \$ (27,770.1) \$ (27,770.1) \$ (27,780.3) \$ (12,629.1) \$ 5,152 \$ (12,629.1) \$ 5,152 \$ (12,629.1) \$ 6,9% \$ (12,629.1) \$ (17,629.1	(11.116.6) \$ (62.14.5) \$ (62.14.5) \$ (13.317.0) \$ (31.881.2) \$ 2.737.8 \$ (29.143.3) \$ (13.370.8) \$ 5.202 \$ 3.4% \$ 3.5% \$ 6.9% \$ 177 \$ 182 \$ 359 \$ 624.65 \$ (41.7) \$ (580.4) \$ (622.1) \$ (622.1) \$ (655.3) \$ (885.8) \$ (941.1) \$ (985.8) \$ (941.1) \$ (985.8) \$ (985.8) \$ (941.1) \$ (921.8) \$ (985.8) \$ (941.1) \$ (921.8) \$ (985.8) \$ (9	(11,589.5) \$ (6,478.9) \$ (13,883.6) \$ (33,237.6) \$ (33,237.6) \$ (33,237.6) \$ (30,473.9) \$ (14,142.3) \$ 5,252 \$ (44,142.3) \$ 5,252 \$ (44,142.3) \$ 6.9% \$ (59,47.6) \$ (631.52) \$ (634.9) \$ (634.9) \$ (654.9) \$ ((12 (24 2) \$ (6 721 9) \$ (6 721 9) \$ (14,404 3) \$ (34,464 2) \$ 2,776 3 \$ (31,708.0) \$ (14,798.8) \$ 5,275 \$ (31,708.0) \$ (14,798.8) \$ 5,275 \$ (34,798.6) \$ (43,28) \$ (691.6) \$ (644.8) \$ (601.6) \$ (644.8) \$ (601.6) \$ (644.8) \$ (656.1) \$ (6	(12418.6) \$ (6.942.4) \$ (14.876.8) \$ (14.876.8) \$ (35.615.3) \$ 2.776.3 \$ (32.839.0) \$ (15.333.5) \$ 5.275 \$ (32.839.0) \$ (15.333.5) \$ 5.275 \$ (34.876.6) \$ (43.7) \$ (608.2) \$ (651.9) \$ (608.2) \$ (651.9) \$ (608.2) \$ (651.9) \$ (651.9) \$ (698.2) \$ (954.3) \$ (95	(12,825.9) \$ (7,170.1) \$ (15,364.7) \$ (15,364.7) \$ (36,783.5) \$ (36,783.5) \$ (34,007.2) \$ (15,885.7) \$ (35,786.9) \$ (15,885.7) \$ (15,88	(13,246.6) \$ (7,405.3) \$ (7,405.3) \$ (15,868.7) \$ (37,990.0) \$ 2,776.3 \$ (35,213.7) \$ (35,213.7) \$ (16,456.0) \$ 5,275 \$ 3.4% \$ 3.5% \$ 6.9% \$ 180 \$ 185 \$ 364 \$ 169 \$ 174 \$ 343 \$ 659.77 \$ (621.7) \$ (621.7) \$ (666.3) \$ (56.1) \$ (56.1) \$ (898.2) \$ (954.3) \$	(13,681.1) (7,648.1) (16,389.2) (39,236.0) 2,776.3 2,776.3 (36,459.8) (17,045.1) 5,275 3,4% 3,5% 6,9% 180 185 364 169 174 343 681.33 667.03 (45.1) (628.5) (673.7) 10 11 21 3,58 3,58 (56.1) (898.2) (954.3)

Pacific Gas and Electric Company Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013 WORKPAPER 11 - Updated Meter Forecast

Line UPDATED METER FORECAST	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
1 METER GROWTH																
2 Year-end Electric Meters	5,260,391	5,280,587	5,302,687	5,331,879	5,363,973	5,397,539	5,436,049	5,463,967	5,512,204	5,564,582	5,616,840	5,667,935	5,721,436	5,776,941	5,833,092	5,886,501
3 Annual Growth		20,196	22,100	29,192	32,094	33,566	38,510	27,918	48,238	52,378	52,258	51,095	53,501	55,505	56,151	53,409
4 Forecast Annual Growth Rate		0.38%	0.42%	0.55%	0.60%	0.63%	0.71%	0.51%	0.88%	0.95%	0.94%	0.91%	0.94%	0.97%	0.97%	0.92%
5 SMU METER REPLACEMENTS																
6 Single Phase percentage		86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%
7 Assumed Maintenance Rate		0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%
8 Forecast Annual Maintenance	_	45,290	45,472	45,692	45,956	46,238	46,548	46,833	47,160	47,593	48,042	48,486	48,936	49,404	49,884	50,354
9 AMI METER REPLACEMENTS																
10 Single Phase percentage		86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%
11 Assumed Maintenance Rate		0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%
12 Forecast Annual Maintenance	_	38,886	39,042	39,231	39,457	39,699	39,965	40,210	40,491	40,862	41,248	41,630	42,015	42,418	42,829	43,234
Line METER FORECAST PER SMU	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
13 METER GROWTH																
14 Year-end Electric Meters	5.447.286	5.540.109	5.623.576	5.708.300	5.794.647	5.881.949	5,970,207	6,059,427	6.149.979	6.241.512	6.334.407	6.428.303	6.523.594	6.620.300	6.718.442	6.818.042
15 Annual Growth	, ,	92,823	83,467	84,724	86,347	87,302	88,259	89,219	90,553	91,532	92,896	93,896	95,290	96,706	98,142	99,600
16 Forecast Annual Growth Rate		1.70%	1.51%	1.51%	1.51%	1.51%	1.50%	1.49%	1.49%	1.49%	1.49%	1.48%	1.48%	1.48%	1.48%	1.48%
17 SMU METER REPLACEMENTS																
18 Single Phase percentage		86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.9%	86.9%
19 Assumed Maintenance Rate		0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%
20 Forecast Annual Maintenance	_	41,176	47,967	48,686	49,417	50,158	50,911	51,675	52,450	53,237	54,036	54,847	55,670	56,505	57,353	58,213
21 AMI METER REPLACEMENTS																
22 Single Phase percentage		86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.8%	86.9%	86.9%
23 Assumed Maintenance Rate		0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%
24 Forecast Annual Maintenance	_	35,353	41,183	41,801	42,429	43,065	43,711	44,367	45,033	45,709	46,395	47,091	47,797	48,514	49,242	49,981

Pacific Gas and Electric Company Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013 WORKPAPER 12 - Tax Benefits from Meter Replacement in Support of Table 4

Line Tax Benefit From Meter Retirement	Incremental	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
1 Federal Income Tax Rate 2 Actual Deployment	35.00%	4.5%	36.1%	33.4%	19.1%	3.1%	2.9%													
3 Federal Depreciation Schedule as of 1/1/20084 Cumulative Remaining Federal Depreciation		\$ 16,214 \$ \$ 152,202 \$	15,074 \$ 135,988 \$	13,939 \$ 120,914 \$	12,841 \$ 106,975 \$	11,802 \$ 94,134 \$	10,984 \$ 82,332 \$	10,341 \$ 71,348 \$	9,732 \$ 61,007 \$	9,070 \$ 51,275 \$	8,139 \$ 42,205 \$	7,056 \$ 34,066 \$	6,057 \$ 27,011 \$	5,132 \$ 20,954 \$	4,292 \$ 15,822 \$	3,604 \$ 11,530 \$	3,018 \$ 7,925 \$	2,497 \$ 4,908 \$	1,773 \$ 2,411 \$	638 638
Federal Depreciation as Scheduled Federal Income Tax Rate Federal Tax Benefit	\$ 152,202	\$ 16,214 \$ 35%	35%	35%	35%	35%	35%	10,341 \$ 35% (3.619) \$	9,732 \$ 35%	9,070 \$ 35%	8,139 \$ 35% (2.849) \$	7,056 \$ 35% (2.470) \$	6,057 \$ 35%	5,132 \$ 35%	4,292 \$ 35%	3,604 \$ 35%	3,018 \$ 35%	2,497 \$ 35%	1,773 \$ 35%	638 35%
8 Federal Depreciation / Write-off based on Deployment	\$ 152,202	\$ (5,675) \$ \$ 22,398 \$	(5,276) \$ 58,006 \$	44,055 \$	21,342 \$	3,378 \$	2,452 \$	83 \$	(3,406) \$	(3,174) \$	65 \$	56 \$	(2,120) \$	(1,796) \$	(1,502) \$	(1,262) \$	(1,056) \$	(874) \$	(621) \$ 14 \$	(223)
9 Federal Income Tax Rate 10 Federal Tax Benefit		\$ (7,839) \$	35% (20,302) \$	35% (15,419) \$	35% (7,470) \$	35% (1,182) \$	35% (858) \$	35% (29) \$	35% (27) \$	35% (25) \$	35% (23) \$	35% (20) \$	35% (17) \$	35% (14) \$	35% (12) \$	35% (10) \$	35% (8) \$	35% (7) \$	35% (5) \$	35% (2)
11 Incremental Tax Benefit12 Present Value factors13 Present Value of Revenue Requirement (PVRR - 2008)	\$ (11,398)	\$ (2,165) \$ 1.000 \$ (2,165) \$	(15,026) \$ 0.964 (14,486) \$	0.896	(2,975) \$ 0.833 (2,478) \$	2,949 \$ 0.774 2,282 \$	2,986 \$ 0.719 2,148 \$	3,590 \$ 0.668 2,400 \$	3,379 \$ 0.621 2,099 \$	3,149 \$ 0.577 1,818 \$	2,826 \$ 0.537 1,516 \$	2,450 \$ 0.499 1,222 \$	2,103 \$ 0.463 974 \$	1,782 \$ 0.431 767 \$	1,490 \$ 0.400 597 \$	1,251 \$ 0.372 466 \$	1,048 \$ 0.346 362 \$	867 \$ 0.321 279 \$	616 \$ 0.299 184 \$	0.278 61
Original Calculation per SMU Workpapers Line Tax Benefit From Meter Retirement	Incremental																			
	incremental	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
14 Federal Income Tax Rate15 Deployment Plan	35.00%	9.7%	2009 34.9%	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
			34.9%	28.1%	27.3%				9,732 \$ 61,007 \$	9,070 \$ 51,275 \$	8,139 \$ 42,205 \$	7,056 \$ 34,066 \$	2019 6,057 \$ 27,011 \$	2020 5,132 \$ 20,954 \$	2021 4,292 \$ 15,822 \$	3,604 \$ 11,530 \$	3,018 \$ 7,925 \$	2024 2,497 \$ 4,908 \$	2025 1,773 \$ 2,411 \$	2026 638 638
 Deployment Plan Federal Depreciation Schedule as of 1/1/2008 Cumulative Remaining Federal Depreciation Federal Depreciation as Scheduled Federal Income Tax Rate 	35.00%	9.7% \$ 16,214 \$ 152,202 \$ \$ 16,214 \$ 35%	34.9% 15,074 \$ 135,988 \$ 15,074 \$ 35%	28.1% 13,939 \$ 120,914 \$ 13,939 \$ 35%	27.3% 12,841 \$ 106,975 \$ 12,841 \$ 35%	11,802 \$ 94,134 \$ 11,802 \$ 35%	10,984 \$ 82,332 \$ 10,984 \$ 35%	10,341 \$ 71,348 \$ 10,341 \$ 35%	9,732 \$ 61,007 \$ 9,732 \$ 35%	9,070 \$ 51,275 \$ 9,070 \$ 35%	8,139 \$ 42,205 \$ 8,139 \$ 35%	7,056 \$ 34,066 \$ 7,056 \$ 35%	6,057 \$ 27,011 \$ 6,057 \$ 35%	5,132 \$ 20,954 \$ 5,132 \$ 35%	4,292 \$ 15,822 \$ 4,292 \$ 35%	3,604 \$ 11,530 \$ 3,604 \$ 35%	3,018 \$ 7,925 \$ 3,018 \$ 35%	2,497 \$ 4,908 \$ 2,497 \$ 35%	1,773 \$ 2,411 \$ 1,773 \$ 35%	638 638 638 35%
15 Deployment Plan 16 Federal Depreciation Schedule as of 1/1/2008 17 Cumulative Remaining Federal Depreciation 18 Federal Depreciation as Scheduled 19 Federal Income Tax Rate 20 Federal Tax Benefit 21 Federal Depreciation / Write-off based on Deployment	35.00%	9.7% \$ 16,214 \$ 152,202 \$ \$ 16,214 \$ 35% \$ (5,675) \$ \$ 29,424 \$	34.9% 15,074 \$ 135,988 \$ 15,074 \$ 35% (5,276) \$ 55,799 \$	28.1% 13,939 \$ 120,914 \$ 13,939 \$ 35% (4,879) \$ 37,744 \$	27.3% 12,841 \$ 106,975 \$ 12,841 \$ 35% (4,494) \$ 29,235 \$	11,802 \$ 94,134 \$ 11,802 \$ 35% (4,131) \$ 0 \$	10,984 \$ 82,332 \$ 10,984 \$ 35% (3,845) \$ 0 \$	10,341 \$ 71,348 \$ 10,341 \$ 35% (3,619) \$ 0 \$	9,732 \$ 61,007 \$ 9,732 \$ 35% (3,406) \$ 0 \$	9,070 \$ 51,275 \$ 9,070 \$ 35% (3,174) \$ 0 \$	8,139 \$ 42,205 \$ 8,139 \$ 35% (2,849) \$ 0 \$	7,056 \$ 34,066 \$ 7,056 \$ 35% (2,470) \$ 0 \$	6,057 \$ 27,011 \$ 6,057 \$ 35% (2,120) \$ 0 \$	5,132 \$ 20,954 \$ 5,132 \$ 35% (1,796) \$ 0 \$	4,292 \$ 15,822 \$ 4,292 \$ 35% (1,502) \$ 0 \$	3,604 \$ 11,530 \$ 3,604 \$ 35% (1,262) \$ 0 \$	3,018 \$ 7,925 \$ 3,018 \$ 35% (1,056) \$ 0 \$	2,497 \$ 4,908 \$ 2,497 \$ 35% (874) \$	1,773 \$ 2,411 \$ 1,773 \$ 35% (621) \$ 0 \$	638 638 638 35% (223)
 Deployment Plan Federal Depreciation Schedule as of 1/1/2008 Cumulative Remaining Federal Depreciation Federal Depreciation as Scheduled Federal Income Tax Rate Federal Tax Benefit 	35.00% \$ 152,202	9.7% \$ 16,214 \$ 152,202 \$ \$ 16,214 \$ 35% \$ (5,675) \$	34.9% 15,074 \$ 135,988 \$ 15,074 \$ 35% (5,276) \$ 55,799 \$ 35%	28.1% 13,939 \$ 120,914 \$ 13,939 \$ 35% (4,879) \$ 37,744 \$ 35%	27.3% 12,841 \$ 106,975 \$ 12,841 \$ 35% (4,494) \$ 29,235 \$ 35%	11,802 \$ 94,134 \$ 11,802 \$ 35% (4,131) \$	10,984 \$ 82,332 \$ 10,984 \$ 35% (3,845) \$ 0 \$ 35%	10,341 \$ 71,348 \$ 10,341 \$ 35% (3,619) \$ 0 \$ 35%	9,732 \$ 61,007 \$ 9,732 \$ 35% (3,406) \$	9,070 \$ 51,275 \$ 9,070 \$ 35% (3,174) \$	8,139 \$ 42,205 \$ 8,139 \$ 35% (2,849) \$	7,056 \$ 34,066 \$ 7,056 \$ 35% (2,470) \$	6,057 \$ 27,011 \$ 6,057 \$ 35% (2,120) \$	5,132 \$ 20,954 \$ 5,132 \$ 35% (1,796) \$	4,292 \$ 15,822 \$ 4,292 \$ 35% (1,502) \$	3,604 \$ 11,530 \$ 3,604 \$ 35% (1,262) \$	3,018 \$ 7,925 \$ 3,018 \$ 35% (1,056) \$	2,497 \$ 4,908 \$ 2,497 \$ 35% (874) \$	1,773 \$ 2,411 \$ 1,773 \$ 35% (621) \$	638 638 638 35%

Pacific Gas and Electric Company

Exhibit (PG&E-47) – Late Filed SmartMeterTM Upgrade Cost Effectiveness Update in Compliance with Ordering Paragraph 21 of Decision 17-05-013 WORKPAPER 13 - Benefits Associated with TOU (formerly Attachment B)

														Down base	ed on uset	ul life of m	ieter								
Line	Item		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	Avoided Cost of Capacity Associated with TOU																								
2	Residential [a], [d], [e], [f]	MW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	8.1	13.0	18.1	23.3	28.6	33.8	39.2	44.5	50.0	50.6	39.7	16.7	3.7	0.2
3	Non-Residential [f]	MW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.5	103.9	97.7	98.4	98.6	98.8	98.9	99.1	99.2	99.4	99.6	100.9	79.1	33.2	7.4	0.3
4	Incremental[b], [i]		0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	9.4	0.5	1.2	1.4	1.6	1.7	1.9	2.0	2.2	2.4	2.4	1.9	0.8	0.2	0.0
5	Embedded [b], [j]		0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.6	136.5	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2	139.2	141.0	110.6	46.4	10.4	0.4
6	Adjustment for A6, E19V [g]		0.0	0.0	0.0	0.0	0.0	0.0	0.0	-42.0	-42.0	-42.0	-42.0	-42.0	-42.0	-42.0	-42.0	-42.0	-42.0	-42.0	-42.5	-33.4	-14.0	-3.1	-0.1
7	Subtotal - Avoided Capacity associated with TOU (MV	MW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.5	107.0	105.8	111.4	116.7	122.1	127.5	132.9	138.4	143.9	149.6	151.5	118.8	49.8	11.1	0.5
•	December Managin Footons (b.)	4.45																							
8	Reserve Margin Factors [h]	1.15																							
9	Line Loss Factors [h]	1.11																							
10	Avoided Cost of Capacity (\$, million) [h] \$	135.50 \$ / kW-yr	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11.5	\$ 18.5	\$ 18.3	\$ 19.2	\$ 20.2	\$ 21.1	\$ 22.0	\$ 23.0	\$ 23.9	\$ 24.9	\$ 25.8	\$ 26.2	\$ 20.5	\$ 8.6	1.9	\$ 0.1
11	Annual Energy Conservation Associated with TOU																								
12	Residential [a], [f]	GWh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.8	2.9	4.1	5.3	6.5	7.7	9.0	10.2	11.4	11.6	9.1	3.8	0.9	0.0
13	Non-Residential [f]	GWh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	158.4	214.8	198.4	199.4	199.8	200.0	200.1	200.3	200.5	200.7	200.9	203.4	159.8	64.3	10.6	0.0
14	Incremental[b], [i]		0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	21.3	0.9	1.9	2.3	2.5	2.6	2.8	3.0	3.2	3.4	3.4	2.7	1.1	0.3	0.0
15	Embedded[b], [j]		0.0	0.0	0.0	0.0	0.0	0.0	0.0	146.9	223.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	229.9	180.3	75.6	16.9	0.7
16	Adjustment for A6, E19V [g]		0.0	0.0	0.0	0.0	0.0	0.0	0.0	-29.5	-29.5	-29.5	-29.5	-29.5	-29.5	-29.5	-29.5	-29.5	-29.5	-29.5	-29.9	-23.2	-12.4	-6.6	-0.7
17	Subtotal - Energy Conservation (GWh)	GWh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	158.4	215.5	200.2	202.3	203.9	205.3	206.6	208.0	209.4	210.9	212.3	215.0	168.9	68.2	11.4	0.0
18	Power Price Forecast (\$/MWh) [c], [h]		\$ 78.5	\$ 37.8	\$ 39.7	\$ 33.7	\$ 32.4	\$ 32.2	\$ 38.1	\$ 44.9	\$ 49.1	\$ 53.4	\$ 57.8	\$ 63.2	\$ 69.2	\$ 73.0	\$ 76.9	\$ 81.7	\$ 86.8	\$ 85.7	\$ 89.6	\$ 93.5	\$ 97.0	100.4	103.4
19	Benefits from Energy Conservation (\$, million)		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7.1	\$ 10.6	\$ 10.7	\$ 11.7	\$ 12.9	\$ 14.2	\$ 15.1	\$ 16.0	\$ 17.1	\$ 18.3	\$ 18.2	\$ 19.3	\$ 15.8	\$ 6.6	1.1	\$ 0.0
	T		•		•	_	•	•	_	• 400	• ••				• •=•				•						• • •
20	Total Annual Benefits Associated with TOU (\$, million)	7.000/	\$ -	\$ -	\$ -	5 -	\$ -	\$ -	5 -	\$ 18.6	\$ 29.1	\$ 29.0	\$ 30.9	\$ 33.0	Ψ σσ.σ	+	Ψ 00.0		\$ 43.2	T	\$ 45.4				\$ 0.1
21	PVRR Factor [h]	7.60%	1.000	0.964	0.896	0.833	0.774	0.719	0.668	0.621	0.577	0.537	0.499	0.463	0.431	0.400	0.372	0.346	0.321	0.299	0.278	0.240	0.144	0.072	0.009

Assumptions and Notes:

22 PVRR (2008)

- a Line 2 and 12 Source: Statewide Time-of-Use Scenario modeling for 2015 California Energy Commission Integrated Energy Policy Report, Christensen Associates, 2015.
- Line 4, 5, 14, and 15 Source: 2014 Load Impact Evaluation of Pacific Gas and Electric Company's Mandatory Time-of-Use Rates for Small and Medium Non-residential Customers: Ex-post and Ex-ante Report, Christensen Associates, 2015.
- Source: E3 Avoided cost calculator at http://Ethree.com/public_projects/cpucSGIP.php. File name: http://ethree.com/documents/E3_NEM_Avoided_Cost%20Model_SGIP_Update_20150521.xlsm. This version was used for 2017 DR bridge year funding request per ALJ ruling December 3, 2015. Resource balance year was set to only long-run capacity cost consistent with Resolution E-4801 (September 29, 2016) as required by D.16-06-007 (June 16, 2016) in DER R.14-10-003.
- Assumed that behavioral impact from residential customers from default TOU will be effectively similar to Scenario #3 (30% opt-in with proposed TOU rates).

184.1 million

- e From 2016 through 2024 represents the increase in adoption rates and learning curve.
- From 2026 to 2030, peak load reduction numbers have been reduced to match the useful life of the meters (20 yrs).
- g Adjusted for A6 and E19V customers as they were already under TOU rates.
- Assumed same reserve margin factors, line loss factors, and PVRR factor as the previous workpapers submitted for D.09-03-026 (A.07-12-009).
- i Incremental Non Residential customers refer to the new customers enrolled in to the TOU program.
- j Embedded Non Residential customers refer to the existing customers in the TOU program for that specific year.