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Tables from the 3/21/06 2006 Final Report (pages 10-13)

Table 1: Undervaluation of Residential End Uses due to TOU Averaging

End Use Shape: Climate Zone (if applicable)	TOU Shares					Average Avoided Cost using TOU Averages	Average Avoided Cost using Hourly Data	Correction Ratio (Hour/TOU)
	Summer Peak	Summer Partial	Summer Off	Winter Partial	Winter Peak			
A/C:4	30%	20%	48%	1%	1%	\$ 91.5	\$ 102.5	1.12
A/C:11	31%	25%	43%	0%	0%	\$ 93.0	\$ 107.2	1.15
A/C:12	31%	23%	45%	1%	1%	\$ 92.5	\$ 104.4	1.13
A/C:13	29%	24%	46%	1%	1%	\$ 91.6	\$ 104.6	1.14
A/C:2,16	38%	17%	45%	0%	0%	\$ 95.3	\$ 113.9	1.20
A/C:3,5	35%	21%	41%	2%	1%	\$ 94.7	\$ 103.4	1.09
WINDOW AC	29%	18%	35%	7%	10%	\$ 91.6	\$ 104.2	1.14
HEAT PUMP COMPRESSOR	8%	7%	13%	22%	50%	\$ 78.9	\$ 84.3	1.07
STOVE / OVEN	11%	14%	20%	29%	25%	\$ 84.1	\$ 90.8	1.08
STOVE ONLY	12%	14%	20%	29%	25%	\$ 84.5	\$ 90.5	1.07
CLOTHES WASHER	15%	19%	22%	26%	19%	\$ 86.7	\$ 93.2	1.07
CLOTHES DRYER	9%	13%	22%	27%	28%	\$ 82.0	\$ 87.4	1.07
WATER HEATER	6%	12%	26%	24%	32%	\$ 79.4	\$ 83.2	1.05
MICROWAVE	9%	12%	22%	27%	31%	\$ 81.4	\$ 84.7	1.04
POOL PUMP	17%	17%	27%	21%	19%	\$ 86.4	\$ 89.8	1.04
SPA/HOT TUB/SPA HEATER	15%	8%	19%	29%	29%	\$ 84.6	\$ 86.6	1.02
FREEZER	11%	12%	35%	16%	25%	\$ 80.9	\$ 81.0	1.00
REFRIG	11%	11%	33%	17%	28%	\$ 80.6	\$ 80.9	1.00

Table 2: TOU Undervaluation - Commercial Sector Climate Zones 1-5

	OTHER COM	OFFICE	LODGING	HOSPITALS	GROCERY	COLLEGES	WAREHOUSE	SCHOOLS	RETAIL	RESTAURANTS	REF WAREHOUSE	AVERAGE
COOL	1.04	1.01	1.02	1.03	1.03	1.03	1.01	1.00	1.07	1.07		1.03
COOK	1.02	1.01	1.03	1.02	1.02	1.01	1.00	0.99	1.03	1.04	0.99	1.01
AIR	1.00	0.97	1.01	1.01	1.01	1.00	1.00	1.00	1.01		1.01	1.00
PROC	1.02						1.00		1.06		0.99	1.02
MISC	1.01	1.01	1.01	1.01	1.02	1.01	1.00	1.01	1.02	1.02	0.99	1.01
H20H	1.02	1.00	1.02	1.03	1.04	1.02	1.00	1.00	1.02	1.05	0.99	1.02
HEAT	1.03	1.04	1.04	1.00	0.95	1.04	1.06	1.07	1.05	1.11	1.02	1.04
MOTOR	1.01	0.99	1.01	1.01	1.00	1.02	1.02	1.01	1.01	1.07	1.00	1.01
OFFICE	1.01	1.00	1.01	1.01	1.02	1.01	1.00	1.00	1.01	1.02	1.00	1.01
FRIDGE	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	0.99	1.01
VENT	1.02	1.01	1.01	1.02	1.01	1.03	1.01	1.01	1.04	1.04	0.99	1.02
LGHT_IN	1.02	1.00	1.02	1.02	1.02	1.02	1.00	1.00	1.03	1.04	0.99	1.02
LGHT_OUT	0.99	0.98	0.97	0.97	0.98	0.99	0.97	1.01	0.97	1.00	0.97	0.98
WHOLE	1.02	1.00	1.01	1.02	1.01	1.02	1.01	1.00	1.03	1.03	0.99	1.01

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Table 3: TOU Undervaluation - Commercial Sector Climate Zones 11-13

	OTHER COM	OFFICE	LODGING	HOSPITALS	GROCERY	COLLEGES	WAREHOUSE	SCHOOLS	RETAIL	RESTAURANTS	REF WAREHOUSE	AVERAGE
COOL	1.05	1.04	1.07	1.02	1.06	1.03	1.02	0.99	1.07	1.05		1.04
COOK	1.00	1.02	1.03	1.02	1.01	1.00		1.00	1.05	1.03		1.02
AIR	1.00	1.00	1.00	1.00	0.97	1.01	1.00	0.99	1.02		1.01	1.00
PROC	1.01	1.00					0.99				1.04	1.01
MISC	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.02	1.02	0.99	1.01
H20H	1.00	1.00		1.00	1.03	1.01	1.02	1.00	1.03	1.02	1.00	1.01
HEAT	1.02	1.04	1.03	1.03	1.04	1.06	1.05	1.05	1.05	1.01	1.05	1.04
MOTOR	0.99	1.00	1.01	1.00	1.04	1.01	1.03	1.00	1.00		1.03	1.01
OFFICE	1.00	1.00	1.00	1.01	1.01	1.01	1.01	1.00	1.01	1.01	1.00	1.01
FRIDGE	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.02	1.01
VENT	1.01	1.00	1.00	1.00	1.02	1.03	1.00	1.01	1.01	1.01	1.03	1.01
LGHT_IN	1.02	1.01	1.01	1.01	1.02	1.01	1.01	0.99	1.02	1.03	1.02	1.01
LGHT_OUT	0.98	0.99	0.96	0.97	1.00	1.00	0.98	0.98	0.98	0.99	0.99	0.98
WHOLE	1.01	1.01	1.02	1.01	1.01	1.02	1.01	1.00	1.03	1.02	1.02	1.02

Table 4: Residential TOU Corrections – DEER

Residential Air-Conditioning Average Correction Factors by Climate Zone			
Climate	Hrly/TOU avoided \$		
	PG&E	SCE	SDG&E
CZ02	1.16		
CZ03	1.06		
CZ04	1.20		
CZ05	1.07		
CZ06		1.15	1.19
CZ07			1.29
CZ08		1.16	1.22
CZ09		1.21	1.26
CZ10		1.26	1.32
CZ11	1.16		
CZ12	1.18		
CZ13	1.19	1.19	1.24
CZ14	1.23	1.21	1.28
CZ15		1.14	1.20
CZ16	1.13	1.13	1.14
Wtd:	1.15	1.18	1.24

ATTACHMENT 2**Page 3****Table 5: Commercial TOU Corrections**

**Commercial Buildings Small Packaged Air-Conditioning
Correction Factors by Building Type and Climate Zone**

Climate	Office			Retail		
	PG&E	SCE	SDG&E	PG&E	SCE	SDG&E
CZ02	1.05			1.11		
CZ03	1.03			1.10		
CZ04	1.04			1.11		
CZ05	1.04			1.12		
CZ06		1.05	1.07		1.14	1.18
CZ07			1.09			1.20
CZ08		1.05	1.08		1.13	1.17
CZ09		1.06	1.09		1.13	1.18
CZ10		1.07	1.10		1.14	1.19
CZ11	1.06			1.11		
CZ12	1.07			1.13		
CZ13	1.06	1.08	1.12	1.11	1.15	1.20
CZ14	1.07	1.08	1.12	1.12	1.15	1.21
CZ15		1.06	1.09		1.10	1.15
CZ16	1.07	1.08	1.12	1.16	1.18	1.26
Wtd:	1.05	1.07	1.10	1.12	1.14	1.19

last row applies population weights from Table 7 on "Weights" tab

Tables from Attachment 1 to the 3/21/06 Final Report**Table 1****Residential**

Air-Conditioning Correction Factors by Air-Conditioner SEER level

Climate	SEER 14			SEER 15			SEER 16		
	PG&E	SCE	SDG&E	PG&E	SCE	SDG&E	PG&E	SCE	SDG&E
CZ02	1.16			1.14			1.14		
CZ03	1.06			1.05			1.08		
CZ04	1.21			1.15			1.15		
CZ05	1.07			1.07			1.11		
CZ06		1.16	1.21		1.15	1.19		1.15	1.20
CZ07			1.37			1.28			1.28
CZ08		1.18	1.26		1.15	1.21		1.15	1.21
CZ09		1.23	1.29		1.19	1.25		1.22	1.30
CZ10		1.29	1.38		1.24	1.31		1.23	1.32
CZ11	1.17			1.14			1.15		
CZ12	1.18			1.16			1.19		
CZ13	1.20	1.21	1.30	1.14	1.16	1.23	1.15	1.18	1.26
CZ14	1.23	1.23	1.31	1.20	1.20	1.28	1.16	1.17	1.25
CZ15		1.17	1.26		1.12	1.19		1.13	1.20
CZ16	1.13	1.11	1.10	1.13	1.13	1.14	1.18	1.20	1.23
Wtd:	1.16	1.20	1.27	1.13	1.17	1.23	1.15	1.18	1.25

Wtd row applies population weights from Table 6 on the spreadsheet "Weights" tab

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Table 3**Residential Weights by SEER measure**

Utility	SEER 14	SEER 15	SEER 16	sum
PGE	0.9	0.05	0.05	1.00
SCE	0.5	0.45	0.05	1.00
SDG&E	0.15	0.8	0.05	1.00

Table 4**Residential Weights by CZ**

Climate	PG&E	SCE	SDG&E
CZ02	1.00		
CZ03	1.00		
CZ04	1.00		
CZ05	1.00		
CZ06		1.00	1.00
CZ07			1.00
CZ08		1.00	1.00
CZ09		1.00	1.00
CZ10		1.00	1.00
CZ11	1.00		
CZ12	1.00		
CZ13	1.00	1.00	1.00
CZ14	1.00	1.00	1.00
CZ15		1.00	1.00
CZ16	1.00	1.00	1.00
sum	9.00	8.00	9.00

Table 5
Commerical Buildings Small Packaged Air-Conditioning
Correction Factors by Building Type and Climate Zone

Climate	PG&E	Office		PG&E	Retail	
		SCE	SDG&E		SCE	SDG&E
CZ02	1.05			1.11		
CZ03	1.03			1.10		
CZ04	1.04			1.11		
CZ05	1.04			1.12		
CZ06		1.05	1.07		1.14	1.18
CZ07			1.09			1.20
CZ08		1.05	1.08		1.13	1.17
CZ09		1.06	1.09		1.13	1.18
CZ10		1.07	1.10		1.14	1.19
CZ11	1.06			1.11		
CZ12	1.07			1.13		
CZ13	1.06	1.08	1.12	1.11	1.15	1.20
CZ14	1.07	1.08	1.12	1.12	1.15	1.21
CZ15		1.06	1.09		1.10	1.15
CZ16	1.07	1.08	1.12	1.16	1.18	1.26
Wtd:	1.05	1.07	1.10	1.12	1.14	1.19

Wtd row applies population weights from Table 7 on the spreadsheet
"Weights" tab

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Table 6

Climate	Office Weights by CZ			Retail Weights by CZ		
	PG&E	SCE	SDG&E	PG&E	SCE	SDG&E
CZ02	1.00			1.00		
CZ03	1.00			1.00		
CZ04	1.00			1.00		
CZ05	1.00			1.00		
CZ06		1.00	1.00		1.00	1.00
CZ07			1.00			1.00
CZ08		1.00	1.00		1.00	1.00
CZ09		1.00	1.00		1.00	1.00
CZ10		1.00	1.00		1.00	1.00
CZ11	1.00			1.00		
CZ12	1.00			1.00		
CZ13	1.00	1.00	1.00	1.00	1.00	1.00
CZ14	1.00	1.00	1.00	1.00	1.00	1.00
CZ15		1.00	1.00		1.00	1.00
CZ16	1.00	1.00	1.00	1.00	1.00	1.00
sum	9.00	8.00	9.00	9.00	8.00	9.00

Tables from the 4/11/06 Supplement to Attachment 1 of the Final Report

Table 1

Residential

Air-Conditioning Correction Factors by Air-Conditioner SEER level

Climate	SEER 14			SEER 15			SEER 16		
	PG&E	SCE	SDG&E	PG&E	SCE	SDG&E	PG&E	SCE	SDG&E
CZ02	1.16			1.14			1.14		
CZ03	1.06			1.05			1.08		
CZ04	1.21			1.15			1.15		
CZ05	1.07			1.07			1.11		
CZ06		1.16	1.21		1.15	1.19		1.15	1.20
CZ07			1.37			1.28			1.28
CZ08		1.18	1.26		1.15	1.21		1.15	1.21
CZ09		1.23	1.29		1.19	1.25		1.22	1.30
CZ10		1.29	1.38		1.24	1.31		1.23	1.32
CZ11	1.17			1.14			1.15		
CZ12	1.18			1.16			1.19		
CZ13	1.20	1.21	1.30	1.14	1.16	1.23	1.15	1.18	1.26
CZ14	1.23	1.23	1.31	1.20	1.20	1.28	1.16	1.17	1.25
CZ15		1.17	1.26		1.12	1.19		1.13	1.20
CZ16	1.13	1.11	1.10	1.13	1.13	1.14	1.18	1.20	1.23
Wtd:	1.184	1.221	1.317	1.146	1.179	1.263	1.163	1.183	1.263

last row applies population weights from Table 4 on the "Weights" tab

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Table 2
Residential Air-Conditioning Average
Correction Factors by Climate Zone

Climate	Hrly/TOU avoided \$		
	PG&E	SCE	SDG&E
CZ02	1.15		
CZ03	1.06		
CZ04	1.19		
CZ05	1.07		
CZ06		1.16	1.20
CZ07			1.30
CZ08		1.17	1.22
CZ09		1.21	1.26
CZ10		1.27	1.33
CZ11	1.16		
CZ12	1.17		
CZ13	1.18	1.19	1.24
CZ14	1.22	1.21	1.29
CZ15		1.15	1.21
CZ16	1.13	1.12	1.13
Wtd:	1.171	1.202	1.276

*all values in this table are derived by
weighting SEER level correction
factors according to Table 3 on the
Weights tab*

Table 3
Residential Weights by SEER measure

Utility	SEER 14	SEER 15	SEER 16	sum
PGE	65.0%	34.0%	1.0%	1.00
SCE	54.0%	44.0%	2.0%	1.00
SDG&E	25.0%	75.0%	0.0%	1.00

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Table 4
Residential Population Weights by CZ

Climate	PG&E	SCE	SDG&E
CZ02	6.4%		
CZ03	1.2%		
CZ04	10.5%		
CZ05	0.0%		
CZ06		0.0%	0%
CZ07			0%
CZ08		19.0%	33%
CZ09		21.0%	0%
CZ10		24.0%	43%
CZ11	12.6%		
CZ12	38.0%		
CZ13	31.0%	4.0%	0%
CZ14	0.1%	12.0%	14%
CZ15		20.0%	10%
CZ16	0.2%	0.0%	0%
sum	1.00	1.00	1.00

Table 5
Commerical Buildings Small Packaged Air-Conditioning
Correction Factors by Building Type and Climate Zone

Climate	Office			Retail		
	PG&E	SCE	SDG&E	PG&E	SCE	SDG&E
CZ02	1.05			1.11		
CZ03	1.03			1.10		
CZ04	1.04			1.11		
CZ05	1.04			1.12		
CZ06		1.05	1.07		1.14	1.18
CZ07			1.09			1.20
CZ08		1.05	1.08		1.13	1.17
CZ09		1.06	1.09		1.13	1.18
CZ10		1.07	1.10		1.14	1.19
CZ11	1.06			1.11		
CZ12	1.07			1.13		
CZ13	1.06	1.08	1.12	1.11	1.15	1.20
CZ14	1.07	1.08	1.12	1.12	1.15	1.21
CZ15		1.06	1.09		1.10	1.15
CZ16	1.07	1.08	1.12	1.16	1.18	1.26
Wtd:	1.055	1.063	0.000	1.115	1.136	1.194

last row applies population weights from Table 6 on "Weights" tab

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Table 6 Commercial Population Weights by CZ

Climate	Office Weights by CZ			Retail Weights by CZ		
	PG&E	SCE	SDG&E	PG&E	SCE	SDG&E
CZ02	0.5%			0.2%		
CZ03	2.3%			1.1%		
CZ04	1.5%			0.8%		
CZ05	0.1%			0.1%		
CZ06		0.1%	0.0%		0.0%	0.0%
CZ07			0.0%			34.5%
CZ08		6.1%	0.0%		1.3%	0.0%
CZ09		4.1%	0.0%		0.9%	0.0%
CZ10		7.2%	0.0%		1.6%	30.8%
CZ11	1.2%			0.6%		
CZ12	3.7%			1.8%		
CZ13	3.4%	1.0%	0.0%	1.7%	0.2%	0.0%
CZ14	0.0%	1.4%	0.0%	0.0%	0.3%	22.4%
CZ15		0.4%	0.0%		0.1%	12.4%
CZ16	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
sum	12.7%	20.2%	0.0%	6.3%	4.4%	100.0%
Total Office and Retail Weights				19.0%	24.7%	100.0%

(END OF ATTACHMENT 2)