

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

Application of San Diego Gas & Electric  
Company (U 902 M) for Approval of Demand  
Response Programs and Budgets for Years 2009  
through 2011

Application 08-06-002

**AMENDED APPLICATION OF SAN DIEGO GAS & ELECTRIC COMPANY (U 902-M)  
FOR APPROVAL OF DEMAND RESPONSE PROGRAMS AND BUDGETS FOR  
YEARS 2009 THROUGH 2011**

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**VOLUME IV OF VI**

Application of San Diego Gas & Electric  
Company (U-902-M) for Approval of  
Demand Response Programs and Budgets  
for the Years 2009 through 2011.

Application 08-06- 002

CHAPTER III  
PREPARED DIRECT TESTIMONY  
OF KATHRYN E. SMITH

BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA

September 19, 2008

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1 **CHAPTER III**

2 **I. PURPOSE**

3 The purpose of this testimony is to present the load impacts of SDG&E's demand  
4 response programs calculated in accordance with the load impact protocols.

5 This testimony contains historical information on program performance in 2006 and 2007  
6 and the predicted load impacts for 2009-2011. The testimony also contains a description and  
7 budget for measurement and evaluation activities planned for 2009-2011.

8 **II. BACKGROUND**

9 On November 18<sup>th</sup> 2005, the CPUC issued D.05-11-009 which directed agency staff to  
10 prepare a set of draft protocols for estimating load impacts for both price responsive and  
11 reliability demand response programs.<sup>1</sup> A document was prepared for the WG2 Measurement  
12 and Evaluation Committee on April 3<sup>rd</sup> 2006 titled: Draft Version 1 –Protocols for Estimating  
13 the Load Impacts from DR Program. The purpose of the document was to initiate discussion  
14 regarding the development of the load impact protocols. Several “Impact Issues” (28 in all) were  
15 identified throughout the document to help identify areas for further discussion and thought on  
16 the subject. On January 25<sup>th</sup> 2007 the CPUC initiated R.07-01-041, Order Instituting  
17 Rulemaking Regarding Policies and Protocols for Demand Response Load Impact Estimates,  
18 Cost-Effectiveness Methodologies, Megawatt Goals and Alignment with California Independent  
19 System Operator Market Design Protocols. The purpose of the rulemaking was to develop  
20 effective demand response (DR) programs for investor-owned utilities. This rulemaking had  
21 four primary goals:

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<sup>1</sup> D.05-11-009 ordering paragraph #8.

- 1 1. Establish a comprehensive set of protocols for estimating the load  
2 impacts of DR programs;
- 3 2. Establish methodologies to determine the  
4 cost-effectiveness of DR programs;
- 5 3. Set DR goals for 2008 and beyond, and develop rules on goal  
6 attainment; and
- 7 4. Consider modifications to DR programs needed to support the  
8 California Independent System Operator's (CAISO) efforts to  
9 incorporate DR into market design protocols.

10 On April 18<sup>th</sup> 2007 a scoping memo and ruling was issued that set the scope and  
11 procedural schedule for the proceeding. Among other things, the scoping memo directed the  
12 utilities to file their 2009-2011 DR programs no later than June 1<sup>st</sup> 2008. The scoping memo also  
13 identified a Phase 1 of the proceeding where goals #1 and #2 were to be worked on in a  
14 simultaneous parallel process<sup>2</sup>. Phase 2 of the proceeding was to deal with goal #3 and yet to be  
15 determined phase was to address goal #4. The scoping memo schedule included workshops and  
16 provided a timeline for which "straw proposals" for both Load Impact and Cost Effectiveness  
17 Protocols were to be submitted to the CPUC. On May 24, 2007, the Energy Division of the  
18 CPUC and the Demand Analysis Office of the California Energy Commission (CEC) issued a  
19 document entitled *Staff Guidance for Straw Proposals On: Load Impact Estimation from DR*  
20 *and Cost-Effectiveness Methods for DR*. This guidance document helped further identify  
21 appropriate Load Impact protocol scope. The joint IOUs submitted its straw proposal on July  
22 16<sup>th</sup> 2007. On September 10th the joint utilities submitted their final straw proposals for the  
23 CPUC's consideration. On April 24<sup>th</sup> 2008 Decision 08-04-050 adopting protocols for  
24 estimating demand response load impacts was issued. The load impact protocol Decision

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<sup>2</sup> Assigned Commissioner and Administrative Law Judge's Scoping Memo and Ruling, April 18, 2007, p 3

1 instructed the utilities to include both the ex-ante and ex-post benefits for programs being offered  
2 in the 2009-2011 filing to the extent it is possible.

3         The demand response activities for 2009-2011 include both dynamic rates and demand  
4 response programs. Rates Critical Peak Pricing Default (CPP-D) and Peak Time Rebate (PTR)  
5 were initially described in SDG&E's AMI business case A-05-03-015 and finally adopted in  
6 SDG&E's GRC phase II Settlement Agreement<sup>3</sup>. The load impacts expected from these rates  
7 were litigated in the AMI business case and the AMI decision D-07-04-043 laid out specific  
8 participation rates and other assumptions that were to be used in calculating the predicted load  
9 impacts from these rates. The final prices and incentive levels for the CPP-D and PTR were  
10 established in the GRC phase II settlement. The Critical Peak Price Emergency Rate (CPP-E)  
11 was not described in the AMI business case but was also adopted in the GRC phase II settlement  
12 agreement.

13         No estimates of the load impacts from these rates were included in the GRC phase II  
14 settlement agreement. Therefore the load impact estimates in this testimony follow the  
15 participation rates and other assumptions required by the AMI decision but are updated to use the  
16 prices and incentive levels established in the GRC phase II settlement. The load impact  
17 estimates for these rates also include updated information on the rate of the rollout of AMI  
18 meters and AMI billing system. Although these rates have already been adopted load impact  
19 information is provided in order to provide a complete description of the load impacts of all  
20 SDG&E's demand response activities.

21         Demand response programs included in this testimony include the Capacity Bidding  
22 Program (CBP), Voluntary CPP, Summer Saver program, Base Interruptible Program (BIP), and  
23 Permanent Load Shifting (PLS). The history of these program and program descriptions are in

1 Mark Ward's testimony. Load impacts for the Clean Gen and Peak Gen program are not  
2 included in this testimony.

### 3 **III. SUMMARY OF LOAD IMPACT FORECAST FOR 2009-2011**

4 Tables KS-1 through KS-4 contain a summary of the forecasted load impacts of  
5 SDG&E's demand response activities for 2009-2011 under 4 scenarios: a typical event day in a 1  
6 in 2 weather year, a typical event day in a 1 in 10 weather year, the annual peak day in a 1 in 2  
7 weather year and the annual peak day in a 1 in 10 weather year. The forecast represents the MW  
8 expected to be achieved by each program not the MW expected to be enrolled. The load forecast  
9 for each program that existed in 2007 is based on the 2007 measurement and evaluation of the  
10 program and has been forecasted following the ex-ante load impact protocols. These protocols  
11 require the load impact for a typical event day in a 1 in 2 weather year and a 1 in 10 weather year  
12 to be reported for all event based programs. A typical event day is defined in this testimony to  
13 be the top 9 system load days for all programs.

14 The results have been adjusted for weather in the following manner. The residential DR  
15 activities such as PTR and Summer Saver which are expected to produce a higher load impact at  
16 higher temperatures the temperature used to make the load impact prediction was the average  
17 temperature between 11 am and 6pm. The average 11am - 6pm temperature was calculated for  
18 the top 9 system load days over the past 28 years and the 50<sup>th</sup> percentile was used for the 1 in 2  
19 year and the 90<sup>th</sup> percentile was used for the 1 in 10 year. Similarly the average temperature  
20 between 11am - 6pm on the annual system peak day was calculated for the past 28 years and the  
21 50<sup>th</sup> percentile was used for the 1 in 2 weather year and the 90<sup>th</sup> percentile was used for the 1 in  
22 10 weather year. For CPP-D the total load enrolled in the program has been adjusted to be higher

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<sup>3</sup> Motion For Adoption Of All Party And All Issue Settlement,, 11/1/07, pp 7-8,

1 in the 1 in 10 scenario. SDG&E's analysis of the CBP in 2007 showed that overall load impact  
2 did not vary significantly with temperature so no adjustments were made to the load forecast for  
3 this program based on weather. No weather adjustments were made to CPP-E and BIP because  
4 these programs consist of large commercial customers who are generally not weather sensitive.  
5 The MW numbers presented here represent the average reduction over the entire event period.  
6 Since not all programs have the same event period length the MW shown in these tables are  
7 averaged over different time periods. However, these tables are designed to present a simple  
8 overview of the expected load impacts. A more detailed hourly load impact forecast is presented  
9 in section V of this testimony and properly takes into account varying event lengths.

10       The DR activities have been grouped into three categories labeled: day ahead price  
11 triggered, day-of price triggered and day-of reliability trigger. Currently, because MRTU is not  
12 yet in place several of the DR activities in the "price triggered" category are called based on a  
13 load and temperature trigger but once MRTU is in place the plan is to switch these activities over  
14 to a price trigger. Three categories are used instead of two to distinguish between day-of  
15 activities that have more restrictive triggers for which fewer events are usually called and day-of  
16 activities like the Summer Saver program and the CBP which do not require any type of alert or  
17 emergency situation in order to trigger the program. The current Summer Saver trigger is a load  
18 trigger and heat rate trigger and the current Capacity Bidding day-of trigger is a heat rate trigger.

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Table KS-1 Load Impacts for a Typical Event Day 1 in 2 Weather Year (MW)			
DR Activities -	2009	2010	2011
<b>Day-Ahead Price Triggered</b>			
PTR- Residential	0	44	84
PTR-Small C&I (<20 kW)	0	3	8
CPPD - Medium C&I (20-200 kW)	0	0	16
CPPD - Large C&I (>200 kW)	58	60	61
CBP Day-Ahead	14	17	20
<b>Day-Of Price Triggered</b>			
CBP Day-Of	3.5	4.2	4.9
Summer Saver Residential	11	13	13
Summer Saver Small Commercial	5	7	7
<b>Day-Of Reliability Trigger</b>			
CPPE	2	2	2
BIP	5	5	5
<b>Other DR Activities</b>			
Permanent Load Shifting (PLS)	2	2	2
Technology Incentives (TI) Auto DR	8	16	24
Technology Incentives (TI) non-auto DR	6	12	18
SLRP	0	0	0
OBMC	0	0	0
<b>Total</b>	<b>115</b>	<b>185</b>	<b>265</b>

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Table KS-2 Load Impacts for a Typical Event Day 1 in 10 Weather Year (MW)			
DR Activities	2009	2010	2011
<b>Day-Ahead Price Triggered</b>			
PTR- Residential	0	50	96
PTR-Small C&I (<20 kW)	0	3	8
CPPD - Medium C&I (20-200 kW)	0	0	17
CPPD - Large C&I (>200 kW)	60	62	63
CBP Day-Ahead	14	17	20
<b>Day-Of Price Triggered</b>			
CBP Day-Of	3.5	4.2	4.9
Summer Saver Residential	13	16	16
Summer Saver Small Commercial	8	10	10
<b>Day-Of – Reliability Trigger</b>			
CPPE	2	2	2
BIP	5	5	5
<b>Other DR Activities</b>			
Permanent Load Shifting (PLS)	2	2	2
Technology Incentives (TI) Auto DR	8	16	24
Technology Incentives (TI) non-auto DR	6	12	18
SLRP	0	0	0
OBMC	0	0	0
<b>Total</b>	<b>122</b>	<b>199</b>	<b>286</b>

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Table KS-3 Load Impacts for a the Annual Peak Day 1 in 2 Weather Year (MW)			
<b>DR Activities</b>	2009	2010	2011
<b>Day-Ahead Price Triggered</b>			
PTR- Residential	0	50	95
PTR-Small C&I (<20 kW)	0	3	8
CPPD - Medium C&I (20-200 kW)	0	0	16
CPPD - Large C&I (>200 kW)	58	60	61
CBP Day-Ahead	14	17	20
<b>Day-Of Price Triggered</b>			
CBP Day-Of	3.5	4.2	4.9
Summer Saver Residential	13	16	16
Summer Saver Small Commercial	8	10	10
<b>Day Of Reliability Trigger</b>			
CPPE	2	2	2
BIP	5	5	5
<b>Other DR Activities</b>			
Permanent Load Shifting (PLS)	2	2	2
Technology Incentives (TI) Auto DR	8	16	24
Technology Incentives (TI) non-auto DR	6	12	18
SLRP	0	0	0
OBMC	0	0	0
<b>Total</b>	120	197	282

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Table KS-4 Load Impacts for the Annual Peak Day 1 in 10 Weather Year (MW)			
<b>DR Activities - Price Triggered</b>	2009	2010	2011
PTR- Residential	0	55	105
PTR-Small C&I (<20 kW)	0	3	8
CPPD - Medium C&I (20-200 kW)	0	0	17
CPPD - Large C&I (>200 kW)	60	62	63
CBP Day-Ahead	12	14	17
<b>Day-Of Price Triggered</b>			
CBP Day-Of	3.5	4.2	4.9
Summer Saver Residential	19	22	22
Summer Saver Small Commercial	10	14	15
<b>Day-Of Reliability Trigger</b>			
CPPE	2	2	2
BIP	5	5	5
<b>Other DR Activities</b>			
Permanent Load Shifting (PLS)	2	2	2
Technology Incentives (TI) Auto DR	8	16	24
Technology Incentives (TI) non-auto DR	6	12	18
SLRP	0	0	0
OBMC	0	0	0
<b>Total</b>	<b>128</b>	<b>211</b>	<b>303</b>

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The MW estimates for PTR and CPP-D were calculated following the load impact protocols using the same elasticities and models that were used in the SDG&E AMI proceeding. An elasticity combined with price information determines the percentage load reduction. Participation rate assumptions come from the AMI decision and the prices used in the analysis are the prices adopted in the GRC phase II settlement. The PTR participation rate assumed for residential and small commercial is 50% and the medium and large commercial participation rate is assumed to be 100% in accordance with the AMI decision. The prices assumed are a PTR rebate of \$0.75 and a CPP rate of \$1.07 during critical peak periods. Although the PTR offers a

1 higher \$1.25 rebate for customer with enabling technology no enabling technology is assumed in  
2 the PTR estimate in order to avoid double counting the MW from the current Summer Saver  
3 Program. SDG&E is pursuing a pilot study which will offer different types of enabling  
4 technology to residential customers and as enabling technology becomes more widely deployed  
5 it will be incorporated into future load impact forecasts. The meter deployment rates have been  
6 updated to reflect current meter deployment rates. No demand reduction is expected in 2009 for  
7 the PTR or medium commercial CPP-D because the AMI billing system is not scheduled to be  
8 ready to bill interval data by summer of 2009.

9       The CBP estimates are based on the 2007 measurement and analysis of the program  
10 conducted by SDG&E. Overall the evaluation of the program showed excellent results with the  
11 average load reduction for the day-ahead portion of the program of 31%. The forecast assumes  
12 that 2 additional aggregators of comparable size to current aggregators join the program each  
13 year. This number was determined by the fact that 2 additional aggregators joined the program  
14 in 2008 compared to 2007. The program is also expected to experience growth as aggregators  
15 add more customers to their portfolio although this type of growth was not quantified.

16       The Summer Saver results are based on the 2007 ex-post analysis of the program  
17 performed by KEMA. KEMA provided ex-post results for each hour of each event and the ex-  
18 ante forecast was calculated from these results by SDG&E by running a simple linear regression  
19 model of the results per hour per event versus average on-peak temperature. The average  
20 percentage reduction for residential customers on this program in 2007 was 20% and 7% for  
21 commercial customers. This program is weather sensitive with the MW on the highest  
22 temperature day in 2007 higher than the average MW results.

1           There is also a load impact estimate included that represents the incremental impact of  
2 technology installed through SDG&E's technology incentives (TI) program. This impact is  
3 broken down into two categories customers who participate in the TI program and select the  
4 Auto DR option and customers who participate in the TI program but do not select the Auto DR  
5 option. Normally no load impact estimate is assigned to the technology incentives program in  
6 order to avoid double counting the impact of the technology and the programs. However  
7 because the forecasts for SDG&E's demand response activities are based on either 2007 results  
8 or on studies which did not include enabling technology it is necessary to include the  
9 incremental benefit of all enabling technology expected to be installed between fall of 2007 and  
10 summer of 2011 through the TI program. SDG&E's technology incentives program experienced  
11 considerable growth in late 2007 and early 2008 and these installations were installed too late to  
12 be reflected in the 2007 program performance. The TI forecast is based on the rate of TI  
13 installations between August 2007 and February 2008. The forecast shows that a total of 14 MW  
14 of new technology is expected to be installed each year through the TI program. Roughly 40%  
15 of the load reduction installed between August and February was enrolled in the Auto DR option.  
16 However, since the Auto-Dr option offers a higher incentive and more customers are expected to  
17 enroll on Auto DR in the future the forecast assumes 60% of the MW enrolled on TI will choose  
18 the Auto DR option.

19           The forecast of demand response for 2009-2011 depends upon the number of customers  
20 expected to be enrolled in the program. The enrollment forecast for each program is based on  
21 the rate of historical enrollment. For the capacity bidding program the number of MW enrolled  
22 on the program increased by 3 MW between July 2007 and July 2008 due to new aggregators  
23 joining the program and due to aggregators increasing their bids. Therefore the forecast for this

1 program assumes an increase of 3.5 MW per year. The proportion of MW enrolled in the day-  
2 ahead versus day-of CBP program is assumed to be the same as the current proportion. For the  
3 Summer Saver program the average monthly growth rate in tons between October 2007 and May  
4 2008 was calculated and multiplied by 12 giving 15,149 tons for commercial customers and  
5 13,151 tons for residential customers. These numbers are used for the growth rate between 2008  
6 and 2009 and 2009 and 2010. The number of customers enrolled on the program in 2011 is  
7 assumed to be equal to the number of customers enrolled in 2010 since marketing efforts are  
8 expected to decrease in intensity after 2010. The forecast for the CPPE assumes zero growth in  
9 the program after 2008. The BIP forecast is higher for 2009 than for 2007 because six new  
10 accounts joined the program in 2008 and 5 more accounts are pending. The forecast of 5 MW is  
11 based on the 4 MW currently enrolled on the program and an additional 1 MW for pending  
12 customers. No growth in the BIP program is assumed between 2009 and 2011. The forecast for  
13 the TI program assumes 14 MW of new technology is installed each year. This number is based  
14 on the fact that 6.2 MW of new technology was installed between August of 2007 and February  
15 of 2008. Default CPP and publicity from the roll out of Smart Meters are expected to increase  
16 customer interest in enabling technology so a modest increase from 6.2 MW installed every 6  
17 months to 7 MW installed every 6 months was assumed in the forecast.

18 For PTR all residential and small commercial customers with Smart Meters will be  
19 automatically enrolled in the program. The enrollments assume that in 2010 53% of residential  
20 and small commercial customers have Smart Meters and 100% have smart meters by summer of  
21 2011. The PTR enrollment also assumes a 50% participation rate which was the participation  
22 rate stated in the AMI decision D-07-04-043. Although all customers will be automatically  
23 enrolled in PTR the 50% participation rate accounts for customers who are unaware that a PTR

1 event has been initiated. For CPPD large commercial customers > 200 kw already have interval  
2 meters installed so the meter deployment rate used for these customers is 100%. The results for  
3 medium commercial customers assume that medium commercial customers will be enrolled in  
4 default CPPD until once they have had a smart meter in place for 12 months. The purpose of  
5 waiting 12 months is to ensure that the customer has enough data to understand the effect CPPD  
6 rate will have on their electricity bill. Recently in the dynamic pricing decision D-08-07-045 the  
7 commission directed PG&E to default all medium commercial customers onto default CPP only  
8 after customers had 12 months of interval data in place. SDG&E plans to file for the same 12  
9 month waiting period in their November 2008 rate design window. The enrollment forecast  
10 assumes 40% of medium commercial customer will have a smart meter in place for 12 months  
11 by May of 2011. Consistent with the AMI decision a 100% participation rate is assumed for the  
12 CPPD rate.

#### 13 **IV. HISTORICAL LOAD IMPACT RESULTS FOR 2006 AND 2007**

##### 14 **1. Enrollment 2006 and 2007:**

15 Table KS-5 below contains the number of service accounts and number of MWs enrolled  
16 in SDG&E's demand response programs for 2006 through 2008. Tables KS-6 through KS-8  
17 contain the enrollment estimates broken down by NAICS code. The enrollments are broken  
18 down by NAICS code for programs which enroll large commercial customers. The enrolled  
19 MW numbers represent the amount of MW signed up for the program and therefore are not a  
20 measured load impact. However, the enrollment numbers are a good indicator of the number of  
21 customers and the size of the customers who signed up for the programs.



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Table KS-5						
	May-08		May-07		May-06	
Day-Of programs	MWs	Service Accounts	MWs	Service Accounts	MWs	Service Accounts
BIP	5	10	2.5	3	0.1	1
SLRP	0	0	0	0	0.1	1
OBMC	0	0	0	0	0	0
Summer Saver	43.3	26,250	38.2	23,105	28.9	14707
CPP-Emergency	5.1	10	5.1	10	5.1	10
Total Day-of	53.4	26,270	45.8	23108	29.1	14709
Price Programs	MWs	Service Accounts	MWs	Service Accounts	MWs	Service Accounts
CBP	18	246	13.5	38	0	0
Voluntary CPP	30	380	18.1	189	14.4	116
DBP	14	659	12.4	147	12.9	57
PeakDay	34	904	34.4	741	21.4	425
Total Day-ahead	96	2189	78.4	1115	48.7	598

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Table KS-6										
2006 Program Enrollment Data										
NAICS Group	BIP		PeakDay		CPP		DBP		CPPEM	
	Acct	MW	Acct	MW	Acct	MW	Acct	MW	Acct	MW
0 No code			5.0	0.1						
1 Agriculture, Mining & Construction					3.0	0.4				
2 Manufacturing	2.0	0.2	45.0	3.1	12.0	3.0	9.0	2.4	2.0	1.2
3 Wholesale, Transport, other utilities			13.0	0.4	12.0	1.9			5.0	3.7
4 Pipelines & Water utilities			3.0	0.1	18.0	1.3	1.0	0.0	2.0	0.1
5 Retail stores			52.0	0.5	20.0	1.3				
6 Offices, Hotels, Finance, Services			135.0	10.9	26.0	3.7	26.0	3.5	1.0	0.0
7 Schools			193.0	6.0	2.0	0.1	4.0	0.2		
8 Institutional/Government			47.0	1.8	18.0	2.1	3.0	1.2		
<b>Total</b>	<b>2.0</b>	<b>0.2</b>	<b>493.0</b>	<b>22.9</b>	<b>111.0</b>	<b>13.8</b>	<b>43.0</b>	<b>7.3</b>	<b>10.0</b>	<b>5.1</b>

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Table KS-7										
May 2007 Program Enrollment Data										
NAICS Group	BIP		PeakDay		CPP		DBP		CPPE	
	Acct	MW	Acct	MW	Acct	MW	Acct	MW	Acct	MW
0 No code			7	0.1						
1 Agriculture, Mining & Construction			4	0.0	7	1.8				
2 Manufacturing	1	0.1	88	7.7	18	2.9	30	2.3	2	1.2
3 Wholesale, Transport, other utilities	1	0.0	22	0.7	12	1.9			5	3.7
4 Pipelines & Water utilities			4	0.1	17	1.2			2	0.1
5 Retail stores			103	1.2	25	1.3				
6 Offices, Hotels, Finance, Services	1	1.9	304	16.6	57	5.1	41	2.4	1	0.0
7 Schools			190	5.8	2	0.1	8	0.3		
8 Institutional/Government			104	2.5	24	2.0	9	0.3		
<b>Total</b>	<b>3.0</b>	<b>1.9</b>	<b>826.0</b>	<b>34.6</b>	<b>162.0</b>	<b>16.4</b>	<b>88.0</b>	<b>5.2</b>	<b>10.0</b>	<b>5.1</b>

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Table KS-8 May 2008 Program Enrollments by NAICS code													
Naics Group	BIP		C12020		CPP		DBP		CPPE		CBP		
	Acct	MW	Acct	MW	Acct	MW	Acct	MW	Acct	MW	Acct	MW	
0			3	0			2	0			1	0	
1 Agriculture, Mining & Construction			5	0	6	2					1	0	
2 Manufacturing			88	7	20	3	52	3	2	1	49	3	
3 Wholesale, Transport, other utilities	1	0	22	1	138	7			5	4	4	0	
4 Pipelines & Water utilities			4	0	54	3			2	0	1	0	
5 Retail stores			98	1	21	1	21	0			107	7	
Offices, Hotels, Finance, Services													
6	2	2	312	16	115	12	120	6	1	0	42	3	
7 Schools			259	7	2	0	413	5			7	0	
8 Institutional/Government	1	0	113	3	24	2	51	0			52	4	
<b>Total</b>	<b>4</b>	<b>2.5</b>	<b>904.0</b>	<b>34.8</b>	<b>380.0</b>	<b>30.3</b>	<b>659.0</b>	<b>14.3</b>	<b>10.0</b>	<b>5.1</b>	<b>264.0</b>	<b>18.0</b>	

## 2. Measured Load Impacts

This section presents the measured load impacts of the demand response activities that existed in 2007 that SDG&E is proposing to continue. Since SDG&E is viewed as one category for the purposes of resource adequacy the load impacts are presented for the entire SDG&E service territory. This includes the CPP program, the CBP program, the Summer Saver program, the CPP-E program and the BIP program. The 2007 measurement and evaluation results show excellent results for all three program with a 10% load reduction observed in the high price period of the CPP rate, a 20% load reduction observed in the AC saver residential program, a 7% load reduction in the commercial AC saver program and a 30% demand reduction achieved in the CBP program day-ahead and a 7 % demand reduction achieved in the CBP day-of program. Table KS-9 provides a summary that shows the average MW reduction from 2pm-6pm over all event days in 2007 for each program.

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<b>Table KS-9 2007 Actual DR Load Impacts</b>			
<b>DR Program</b>	<b>Average MW 2007</b>	<b>Percent Reduction</b>	<b>Baseline</b>
Capacity Bidding Day-Ahead	6.6	31%	Regression model
Capacity Bidding Day-Of	1.2	7%	Regression model
Voluntary CPP	8.0	11%	Regression model
Summer Saver Residential	8.2	19%	Regression model
Summer Saver Commercial	1.7	7%	Regression model
CPP-E	2.3	50%	Regression model
BIP	1.8	90%	Average monthly on-peak consumption

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Tables KS-10 to KS-17 contain the ex-post hourly load reduction estimates for the average of all events of each program as required by load impact protocols. The impact protocols require that demand response results be measured hourly including event hours and non-event hours.<sup>4</sup> The ex-post tables in the text of the testimony only display hours in which a significant load reduction or load increase was measured. For example, the Summer Saver residential program showed a statistically significant increase in load the first hour after the event so the results for the hour after the event is included along with the event hours. A positive number indicates a load reduction whereas a negative number indicates an increase in load. Confidence intervals at the 10<sup>th</sup>, 30<sup>th</sup>, 50<sup>th</sup>, 70<sup>th</sup>, and 90<sup>th</sup> levels have also been included in order

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<sup>4</sup> Load reductions for each hour of each event are not presented in this testimony but are available in Appendix XX?.

1 to indicate the uncertainty in the measurement of the demand response. Table KS-18 contains the  
 2 total annual kwh reduction measured for each program. Hourly load impacts for each event for  
 3 all twenty-four hours along with goodness of fit statistics for each of the regression models used  
 4 can be found in appendix A of this testimony.

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Table KS-10											
2007 Ex-Post Results Average Day AC Summer Saver Residential											
Hour Ending	Reference Load (MW)	Observed Load (MW)	Load Impact (MW)	Percent Load Impact	Average Number of Customers	Average Temperature	Load Impact Range (MW)				
							10th	30th	50th	70th	90th
15	41.3	34	7.4	18%	16,047	79	6	6.8	7.4	7.9	8.7
16	43.0	34.3	8.7	20%	16,049	76	7.2	8.1	8.7	9.3	10.2
17	43.2	34.8	8.3	19%	16,049	76	6.8	7.7	8.3	9.0	9.9
18	44.1	35.8	8.3	19%	16,049	76	6.7	7.6	8.3	9.0	9.9
19	46.7	49.4	-2.7	-6%	16,049	76	-4.1	-3.3	-2.7	-2.1	-1.3

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Table KS-11											
2007 Ex-Post Results Average Day AC Summer Saver Commercial											
Hour Ending	Reference Load (MW)	Observed Load (MW)	Load Impact (MW)	Percent Load Impact	Average Number of Air-Conditioners	Average Temperature	Load Impact Range (MW)				
							10th	30th	50th	70th	90th
15	28.5	26.4	2.1	7%	4882	78	1.7	1.9	2.1	2.2	2.5
16	25.1	23.2	1.8	7%	4463	75	1.5	1.7	1.8	2.0	2.2
17	23.0	21.5	1.4	6%	4463	75	1.1	1.3	1.4	1.6	1.8
18	20.7	19.2	1.4	7%	4460	75	1.0	1.2	1.4	1.6	1.8

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Table KS-12											
2007 Ex-Post Result Day-Ahead Capacity Bidding Day Ahead 4-Hour Max											
Hour Ending	Reference Load	Observed Load	Load Impact (MW)	Percent Load Impact	Average Number of Customers	Average Temp	Load Impact Range (MW)				
							10th	30th	50th	70th	90th
14	12.1	8.5	3.6	30.1%	36	83	1.8	2.5	3.6	4.8	5.5
15	13.4	9.5	3.9	28.9%	36	83	3.3	3.5	3.9	4.2	4.4
16	13.5	9.5	3.9	29.1%	36	83	3.6	3.7	3.9	4.1	4.2
17	13.1	9.3	3.8	29.0%	36	80	3.5	3.6	3.8	4.0	4.1
18	12.6	9.3	3.3	26.4%	36	79	2.6	2.9	3.3	3.8	4.1

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Table KS-13											
2007 Ex-Post Result Day-Ahead Capacity Bidding Day Ahead 6-Hour Max											
Hour Ending	Reference Load	Observed Load	Load Impact (MW)	Percent Load Impact	Average Number of Customers	Average Temp (dh 75)	Load Impact Range (MW)				
							10th	30th	50th	70th	90th
14	6.5	4.3	2.3	34.6%	28	84.5	2.2	2.2	2.3	2.3	2.3
15	6.8	4.5	2.3	33.3%	28	83.8	2.2	2.2	2.3	2.3	2.3
16	6.9	4.6	2.3	33.7%	28	82.8	2.3	2.3	2.3	2.4	2.4
17	6.9	4.5	2.3	34.2%	28	80.0	2.3	2.3	2.3	2.4	2.4
18	6.8	4.5	2.3	33.7%	28	78.5	2.2	2.2	2.3	2.3	2.4
19	6.7	4.5	2.3	34.0%	28	78.1	2.1	2.1	2.3	2.4	2.5

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Table KS-14											
2007 Ex-Post Result Day-Ahead Capacity Bidding Day-Of 4-Hour Max											
Hour Ending	Reference Load	Observed Load	Load Impact (MW)	Percent Load Impact	Average Number of Customers	Average Temp (dh 75)	Load Impact Range (MW)				
							10th	30th	50th	70th	90th
15	20.6	18.0	2.6	12.6%	71	85	0.1	1.0	2.6	4.2	5.1
16	19.0	17.2	1.8	9.4%	71	83	-1.4	-0.2	1.8	3.7	4.9
17	16.5	16.3	0.3	1.6%	71	80	-2.8	-1.7	0.3	2.2	3.4
18	14.7	14.5	0.2	1.3%	71	76	-2.7	-1.6	0.2	2.0	3.1

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Table KS-15											
2007 Ex-Post Results Voluntary CPP											
Hour Ending	Reference Load (MW)	Observed Load (MW)	Load Impact (MW)	Percent Load Impact	Number of Customers	Average Temp	Load Impact Range (MW)				
							10th	30th	50th	70th	90th
11	77.7	74.9	2.7	-0.0352	229	83	1.4	2.8	2.8	2.7	2.4
12	76.4	66.5	9.8	-0.1287	229	83	8.2	9.2	9.7	10.7	11.9
13	72.0	65.3	6.7	-0.0926	229	83	5.1	5.9	7.0	7.5	8.0
14	68.9	63.5	5.4	-0.0783	229	82	3.9	4.5	5.3	6.4	6.5
15	68.9	64.1	4.8	-0.0702	229	82	3.3	4.2	4.6	5.2	5.9
16	71.9	63.3	8.5	-0.1188	229	80	7.1	7.7	8.4	9.0	10.3
17	72.9	63.1	9.8	-0.1345	229	79	8.6	9.0	9.7	10.1	12.0
18	70.3	61.7	8.7	-0.1231	229	76	7.5	8.4	8.5	8.8	10.6
19	68.0	63.9	4.0	-0.0595	229	73	2.8	3.9	3.6	4.9	5.1

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Table KS-16												
2007 Ex-Post Results CPPE												
Hour Ending	Reference Load (MW)	Observed Load (MW)	Load Impact (MW)	Percent Load Impact	Number of Customers	CDD 75	Load Impact Range					
							10th	30th	50th	70th	90th	
11	3.7	1.7	2.0	53.3%	10	18	1.6	1.8	2.0	1.1	1.2	
12	3.3	1.3	1.9	59.7%	10	21	1.5	1.6	1.9	1.3	1.4	
13	3.4	1.2	2.2	64.7%	10	17	1.7	1.9	2.2	1.5	1.6	
14	4.6	2.0	2.6	56.4%	10	12	2.0	2.2	2.6	1.4	1.5	
15	4.5	1.9	2.6	56.9%	10	16	2.0	2.2	2.6	1.2	1.3	
16	5.0	2.5	2.6	50.9%	10	16	2.1	2.2	2.6	1.5	1.6	
17	5.1	2.5	2.6	50.3%	10	11	2.2	2.3	2.6	1.5	1.5	
18	5.0	2.8	2.2	44.7%	10	6	1.8	2.0	2.2	1.5	1.6	
19	4.9	2.7	2.2	45.4%	10	0	1.9	2.0	2.2	1.7	1.8	

Table KS-17												
2007 Ex-Post Results BIP												
Hour Ending	Reference Load (MW)	Observed Load (MW)	Load Impact (MW)	Percent Load Impact	Number of Customers	temp	10th	30th	50th	70th	90th	
15	2.3	0.2	2.1	91.8%	4	87	2.0	2.0	2.1	2.2	2.1	
16	2.2	0.2	2.0	92.1%	4	86	1.9	1.9	2.0	2.1	2.2	
17	2.2	0.2	2.0	91.1%	4	82	1.8	1.9	2.0	2.0	2.1	
18	2.4	0.4	1.9	82.2%	4	75	1.8	1.9	1.9	2.0	2.1	

Table KS-18	
Program	Annual kwh
Summer Saver	335,729
Voluntary CPP	515,530
CBP	286,932
CPPE	52,077
BIP	19,705

1           The MW load reduction for the Summer Saver program were calculated by KEMA Inc  
2 the consulting firm who has been hired to conduct the measurement and evaluation of the  
3 Summer Saver program. Their approach used customer specific regression models adjusted  
4 using the load on the event day before the event. The analysis used end use data from a sample  
5 of residential customers and whole premise usage data from a sample of small commercial  
6 customers. There was a comparison and control group used in the analysis and a difference of  
7 differences was used to correct for differences between the comparison and the control group.

8           The load impact analysis of the capacity bidding program was conducted by SDG&E  
9 since no statewide measurement and evaluation of this program was conducted in 2007. The  
10 CBP customers have six options to choose from when they sign up for this program. A customer  
11 can choose to be notified either a day-ahead or the day-of and event, and they can choose a  
12 maximum event length of 4 hours, 6 hours or 8 hours. The vast majority of SDG&E's customers  
13 are enrolled in the day-ahead 4 hour maximum, day-ahead 6 hour maximum or day-of 4 hour  
14 maximum options. The analysis in the tables above shows the results for each of these options.  
15 There was a very small amount of load, less than 0.5 MW enrolled in the day-of 6 hour  
16 maximum and day-of 8 hour maximum options so results for these categories are not presented  
17 here and the ex-ante forecast assumes there are no MW in these categories. The analysis is based  
18 on all CBP events that took place in July and August of 2007. There were 8 day-ahead CBP  
19 events and 10 day-of CBP events. There was one day-of event in September but it occurred on a  
20 holiday and another day-of event in October during the wildfires so these events were excluded  
21 from the analysis as unusual events. CBP events can occur any time between 11 a.m and 7 p.m.  
22 so not all events had the same hours. The hourly results were averaged over all events which had

1 an event in the hour in question to produce the average results presented in table KS-10 through  
2 KS-12.

3 The analysis of the 2007 Voluntary CPP program was conducted by Christensen  
4 consulting using a regression model with variables such as temperature, month, and day of week.  
5 The final report is not yet available for this study but preliminary results have been provided by  
6 Christensen. The length of events for this rate are fixed so all events had the same event hours.  
7 The drop in demand response between 12pm and 2pm is due to the participation of water  
8 pumping customers who are already using very little load during this two hour window and  
9 therefore cannot reduce further during these hours.

10 The CBP analysis was conducted using a regression approach similar to the approach  
11 used by Christensen for the voluntary CPP evaluation. Interval data from July 1<sup>st</sup> to August 31<sup>st</sup>  
12 was used in the analysis excluding weekends and holidays. The interval data was summed for all  
13 customers on each option of the CBP program. Then a regression model was run for each hour  
14 using cooling degree days, day of the week variables, and variables for each month as predictors.  
15 The cooling degree day variable which represents temperature was statistically insignificant.  
16 Since the cooling degree variable was insignificant the variable was removed from the model and  
17 replaced by the load between 11 a.m -12p.m on the event day. The results for each event day are  
18 presented in appendix A of this testimony along with the regression output and goodness of fit  
19 statistics.

20 The measurement and evaluation results showed that all but one of the aggregators  
21 enrolled in the program were achieved results similar to what they bid. The aggregator who  
22 appeared to have over bid according to the measurement and analysis received penalties in 2007  
23 indicating that the settlement baseline was appropriate. All aggregators who made their bids



1 according the measurement and evaluation also received a full payment for their efforts also  
2 indicating that the settlement baseline is appropriate.

3         The CPPE and BIP programs were also analyzed by SDG&E using regression methods.  
4 Both of these programs had small enrollments in 2007 CPPE had 10 accounts enrolled and BIP  
5 had 3 accounts enrolled in option A in which customers are given 15 minute notice and 1  
6 account enrolled in BIP option B in which customers are given 3 hours notice. Three events  
7 were called for CPPE, one event was called for BIP option A and two events were called for BIP  
8 option B. As in the CBP analysis the analysis was conducted using interval data, weekends and  
9 holidays were excluded and load in the morning before the event along with variables  
10 representing the day of the week were used as predictors.

#### 11     **V. EX-ANTE LOAD IMPACT DETAILS AND PORTFOLIO ANALYSIS**

12         Tables KS-18 through KS-23 below present the hourly ex-ante load impacts total  
13 portfolio results for 2009-2011 in a 1 in 2 weather year and a 1 in 10 weather year. More  
14 detailed ex-ante tables for each program containing confidence intervals, monthly ex-ante  
15 forecasts for all weather sensitive programs, and the format required by the load impact protocols  
16 can be found in appendix B of this testimony. Some of the programs do not have a fixed length  
17 for their event period. For example the Summer Saver program can be called any time between  
18 12 p.m. and 8 p.m. with a 4 hour maximum event length. For programs with varying event  
19 periods the ex-ante analysis assumes that the event is called in the hours for which the event is  
20 most likely to be called based on the timing of 2007 events. Table KS-19 below presents a chart  
21 showing the lengths of various programs and the time assumed for the ex-ante forecast.

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Table KS-19				
DR Activity	Event Window	Maximum Event Length	Type of event period	Assumed Event Window
PTR-Res	11 am - 6 pm	7	Fixed	11 am - 6 pm
PTR-Com	11 am - 6 pm	7	Fixed	11 am - 6 pm
CPP-D-MedC&I	11 am - 6 pm	7	Fixed	11 am - 6 pm
CPP-D-LgC&I	11 am - 6 pm	7	Fixed	11 am - 6 pm
CBP max 4	11 am - 7pm	4	Variable	2pm-6pm
CBP max6	11 am- 7pm	6	Variable	1pm-7pm
Summer Saver	12 pm - 8pm	4	Variable	2pm-6pm
CPP-E	any-time	6	Variable	12pm-6pm
BIP	any-time	4	Variable	2pm-6pm

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Tables KS-20 through KS-22 show the hourly predicted load impacts for a typical event day in a 1 in 2 weather year. The hourly load impact percentages for the residential PTR rate were based on the hourly analysis performed by CRA of residential customers on track A of the Statewide Pricing Pilot. Because the hours of the CPP price in the statewide pricing pilot were 2pm-7pm and the current hours are 11 am -6pm some of the hourly percentage impacts had to be shifted. The load impact percentage from 2-3 pm from the pilot was applied to the time period from 11 am- 1pm and the load impact percentage from 2-3 pm was applied to the 1pm- 3pm time period. All other hours were applied to the matching time period. There was no hourly analysis of commercial load data performed in the SPP pilot so the commercial ex-ante hourly results for PTR and CPP-D were created by simply multiplying the average MW reduction by the ratio of the amount of load used for the hour in question to the average on-peak load for the top 9 days.

For the CBP program, CPPE program and BIP the ex-post analysis showed very little variation in demand response by temperature. This is typical of demand response programs which enroll large commercial customers. It is important to note that just because the total load

1 enrolled a program varies with temperature that does not mean that the load reduction varies with  
2 temperature. For example a customer who responds to each demand response event by dimming  
3 lighting may have a total load that varies with temperature but will provide the same load  
4 reduction for each event. In order to show that the load reduction varies with temperature using  
5 regression methods it is necessary to show that an interaction term of temperature with the  
6 demand response event variable is statistically significant. For the CBP program and the CPPE  
7 program this interaction term was statistically insignificant and therefore the ex-ante forecast for  
8 these programs does not vary with temperature. For the BIP program temperature did prove to be  
9 statistically significant however it had a very small influence on the demand response, the  
10 regression model predicted that the load reduction would increase by 0.1 MW if the temperature  
11 were increased from 75 degree to 95 degrees. Therefore the ex-ante forecast for these three  
12 programs does not vary with temperature. The Summer Saver (SS) program hourly ex-ante  
13 results were predicted based on a regression run for each hour of the average on-peak  
14 temperature versus the hourly ex-post results.

15 In some cases SDG&E allows customers to participate in more than one demand  
16 response program. When estimating the total load impact if all programs all called  
17 simultaneously it is important not to double count customers enrolled in two programs. In  
18 general for the programs SDG&E has proposed for 20090-2011 adding together the results of  
19 two programs will not significantly overstate the total demand response. In most cases there are  
20 either very few customers enrolled on both programs or in cases such as PTR and Summer Saver  
21 one program offers an enabling technology which provides a significant incremental increase in  
22 demand response. The following section lists all the overlaps between demand response

1 programs, the magnitude of the overlap in each case and how the overlap was taken into account  
2 in the portfolio estimation.

3 **1. CPPD and CBP day-of**

4 Participants are allowed to participate in both CPPD and the CBP day-of program. As of  
5 May 2008 83% of the load enrolled on the CBP day-of program was direct access and 17% was  
6 bundled. Since direct access customers cannot participate in CPPD the forecasted overlap  
7 between CPPD and CBP day-of is forecasted to be 17% of the projected load impacts for CBP  
8 day-of. This leads to an estimated overlap of 0.6 MW in 2009, 0.7 MW in 2010 and 0.8 MW in  
9 2011. The overlap is subtracted from the CPPD MW for the purposes of the portfolio analysis in  
10 scenarios where both programs are triggered simultaneously.

11 **2. CPPD and Summer Saver:**

12 SDG&E has proposed to allow commercial customers to participate in both Summer  
13 Saver and CPPD. Therefore summer saver commercial customers with demands greater than 20  
14 kw may also enroll in default CPP. Currently 42% of the tons enrolled on the summer saver  
15 customers come from commercial customers who will be eligible for default CPP. Since Summer  
16 Saver commercial participants have demands greater than 100 kw this overlap will not begin to  
17 have a significant effect until summer of 2010 when 40% of to commercial customers with  
18 demands greater than 100 kw are expected to have smart meters. Using the elasticities from  
19 statewide pricing pilot commercial study combined with the SDG&E's CPP prices adopted the  
20 expected load reduction for a medium commercial customer on CPP with enabling technology is  
21 13% and the expected load reduction for a medium commercial customer on CPP without  
22 enabling technology is 8%. The average reduction from the Summer Saver program was 7%.  
23 This indicates that for Summer Saver customers adding the CPP results for a customer without

1 technology to the Summer Saver results would predict a 15% reduction indicating that the  
2 overlap that occurs as a results of adding the results from the two programs together overstates  
3 the MW reduction by 2% of the summer saver commercial customer load eligible for default  
4 CPP. This results in a predicted overlap of 0.3 MW in 2011 which has been subtracted from the  
5 CPP load in portfolio scenarios which include both CPPD and Summer Saver.

### 6 **3. CPPE and CBP day-ahead**

7 Customers are allowed to participate on CPPE and CBP day-ahead. However, there are  
8 currently no customers enrolled in both programs. In addition there are only 10 accounts  
9 enrolled in CPPE and the load forecast for 2009-2011 assumes zero growth for this rate schedule  
10 so the overlap between these two programs is assumed to be zero for 2009-2011.

### 11 **4. CBP day-ahead and Summer Saver**

12 Currently there are no customers on both CBP day ahead and Summer Saver. Therefore  
13 the ex-post results for CBP and for Summer Saver clearly reflect the value of the particular  
14 called by itself. Customers on both summer saver and CBP were included in the enrollment  
15 forecast for summer saver but not in the enrollment forecast for CBP.

### 16 **5. PTR and Summer Saver**

17 In 2010 53% of residential customers are expected to have smart meters and be eligible  
18 for PTR and by 2011 100% of residential customers will be enrolled in PTR. Therefore by 2011  
19 all summer saver customers will also be enrolled in PTR. Customers enrolled on the summer  
20 saver program should be allowed to participate in PTR because the PTR payments will  
21 encourage customers to take other load reduction actions such as shutting off lights, and avoiding  
22 doing dishes and laundry during the peak period. PTR events are also longer than summer saver  
23 events PTR events run from 11 to 6pm where as summer saver events have a four hour time

1 limit. The estimate of the load reduction that can be expected from both PTR and summer saver  
 2 comes from the SPP pilot which showed that customers with both a CPP price signal and a  
 3 programmable thermostat reduced their load by 27%. Residential customers on the AC saver  
 4 program conserved 19 % in 2007. Therefore the incremental benefit expected from enrolling the  
 5 Summer Saver customers in PTR is an additional 8% load reduction. The overall percent  
 6 reduction assumed for PTR in this filing is a 6% load reduction, however this can also be viewed  
 7 as a 12% load reduction for 50% of the population and zero load reduction for the remaining  
 8 customers. Since Summer Saver customers are early adopters of technology it's reasonable to  
 9 assume that they would be in the 50% of customers with an average 12% reduction on PTR.  
 10 Therefore the amount of overlap between PTR and Summer saver is 4% of the total summer  
 11 saver load expected to have a smart meter for 12 month which equals on average,1.4 MW in  
 12 2010 and 3.4 MW in 2011. Therefore in the portfolio analysis the PTR MW are reduced  
 13 accordingly.

Table KS-20													
2009 Hourly Load Impact (MW) 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H12	0	0.0	0.0	61.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	72.7
H13	0	0.0	0.0	61.3	0.0	0.0	0.0	0.0	0.0	0.0	2.2	11.0	74.5
H14	0	0.0	0.0	61.2	8.5	5.3	0.0	0.0	0.0	0.0	2.6	11.0	88.6
H15	0	0.0	0.0	59.8	9.0	5.3	4.9	9.8	6.7	5.1	2.6	14.0	117.2
H16	0	0.0	0.0	57.5	9.1	5.4	4.1	11.6	6.8	5.2	2.6	14.0	116.3
H17	0	0.0	0.0	54.0	8.8	5.5	2.6	11.4	4.8	5.0	2.6	14.0	108.7
H18	0	0.0	0.0	50.4	7.8	5.3	2.5	9.8	3.9	4.7	2.2	14.0	100.6
H19	0	0.0	0.0	0.0	0.0	5.3	0.0	-3.7	0.0	0.0	0.0	0.0	1.7

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Table KS-21													
2010 Hourly Load Impact (MW) 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
H12	35.0	3.0	0.0	63.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	101.9
H13	35.1	3.0	0.0	63.4	0.0	0.0	0.0	0.0	0.0	0.0	2.2	22.0	101.5
H14	46.9	3.0	0.0	63.4	0.0	6.3	0.0	0.0	0.0	5.0	2.6	22.0	149.2
H15	46.0	3.0	0.0	60.9	10.2	6.3	5.6	11.6	8.7	5.1	2.6	28.0	188.1
H16	53.9	3.0	0.0	58.6	10.9	6.5	4.8	13.8	9.0	5.2	2.6	28.0	165.6
H17	45.4	3.0	0.0	55.3	10.9	6.6	3.3	13.5	6.2	5.0	2.6	28.0	149.2
H18	40.9	3.0	0.0	51.6	10.6	6.4	3.2	11.6	5.1	4.7	2.2	28.0	137.1
H19	0.0	0.0	0.0	0.0	0.0	6.4	0.0	-4.4	0.0	0.0	0.0	0.0	2.0

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Table KS-22													
2011 Hourly Load Impact (MW) 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0	0	0	0	0	0	0	0	0	0	0	0
H12	66.9	11	17	65	0	0	0	0	0	0	0	33	192.9
H13	67.0	11	17	64	0	0	0	0	0	0	2	33	194.6
H14	89.5	11	17	64	0	7	0	0	0	0	3	33	224.8
H15	87.5	11	17	61	13	7	6	12	9	5	3	42	272.9
H16	102.5	11	16	59	13	8	5	14	9	5	3	42	286.8
H17	86.2	11	15	56	12	8	4	14	6	5	3	42	261.3
H18	77.7	11	14	52	11	7	4	12	5	5	2	42	242.6
H19	0.0	0	0	0	0	7	0	-4	0	0	0	0	3.1

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Table KS-23													
2009 Hourly Load Impact (MW) 1 in 10 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H12	0	0.0	0.0	63.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	74.6
H13	0	0.0	0.0	63.1	0.0	0.0	0.0	0.0	0.0	0.0	2.2	11.0	76.3
H14	0	0.0	0.0	63.1	0.0	5.3	0.0	0.0	0.0	0.0	2.6	11.0	82.0
H15	0	0.0	0.0	61.6	9.0	5.3	4.9	13.7	10.1	5.1	2.6	14.0	126.3
H16	0	0.0	0.0	59.2	9.1	5.4	4.1	15.0	9.9	5.2	2.6	14.0	124.5
H17	0	0.0	0.0	55.6	8.8	5.5	2.6	13.8	5.9	5.0	2.6	14.0	113.9
H18	0	0.0	0.0	52.0	7.8	5.3	2.5	10.8	5.4	4.7	2.2	14.0	104.6
H19	0	0.0	0.0	0.0	0.0	5.3	0.0	-3.7	0.0	0.0	0.0	0.0	1.7

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Table KS-24													
2010 Hourly Load Impact (MW) 1 in 10 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H12	35.0	3.0	0.0	65.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	125.8
H13	35.1	3.0	0.0	65.3	0.0	0.0	0.0	0.0	0.0	0.0	2.2	22.0	127.6
H14	46.9	3.0	0.0	65.3	0.0	6.3	0.0	0.0	0.0	0.0	2.6	22.0	146.1
H15	45.6	3.0	0.0	62.8	10.2	6.3	5.6	16.2	13.2	5.1	2.6	28.0	198.6
H16	53.5	3.0	0.0	60.4	10.9	6.5	4.8	17.8	13.0	5.2	2.6	28.0	205.7
H17	45.1	3.0	0.0	57.0	10.9	6.6	3.3	16.4	7.8	5.0	2.6	28.0	185.7
H18	40.8	3.0	0.0	53.2	10.6	6.4	3.2	12.8	7.1	4.7	2.2	28.0	171.9
H19	0.0	0.0	0.0	0.0	0.0	6.4	0.0	-4.4	0.0	0.0	0.0	0.0	2.0

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Table KS-25													
2011 Hourly Load Impact (MW) 1 in 10 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0	0	0	0	0	0	0	0	0	0	0	0.0
H12	66.9	11	17	67	0	0	0	0	0	0	0	33	194.8
H13	67.0	11	17	66	0	0	0	0	0	0	2	33	196.5
H14	89.5	11	17	66	0	7	0	0	0	0	3	21	214.8
H15	86.5	11	17	63	13	7	6	16	13	5	3	42	282.6
H16	101.6	11	16	61	13	8	5	18	13	5	3	42	295.6
H17	85.6	11	15	57	12	8	4	16	8	5	3	42	266.8
H18	77.5	11	14	54	11	7	4	13	7	5	2	42	247.0
H19	0.0	0	0	0	0	7	0	-4	0	0	0	0	3.1

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1 **VI. PORTFOLIO BREAKDOWN**

2 **1. Breakdown of Portfolio by Notification Timing**

3 The portfolio analysis is broken down by three notification time day-ahead, day-of 3  
 4 hours ahead and day-of less than 30 minute notice. All programs that must be called a day ahead  
 5 are included in the day-ahead group. For the second category of 3 hours ahead day-of SDG&E  
 6 has no programs that fit this description exactly. Events for the day-of capacity bidding program  
 7 must be called the day-of the event by 9:00 am. If the event starts at 11:00 or 12:00 this would  
 8 be less than three hours notice but event if the event starts at 2:00pm the customer must still be  
 9 notified by 9:00 AM. SDG&E's PTR program can also be called day-of. In theory there are no  
 10 restrictions on how far in advance the program must be called but there are practical limitations  
 11 on how quickly mass media announcements can be made. Since both the PTR and the CBP day-  
 12 of option are very close to a 3 hour notice option SDG&E has included them in the 3-hour notice  
 13 category. This category is referred to in the tables as day-of early notification required. The last  
 14 category is the day-of 15 minute notice category. The BIP, CPPE and Summer Saver programs  
 15 fall in this category.

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Table KS-26													
2009 Hourly Load Impact Day-Ahead Programs 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0		0.0
H12	0	0	0.0	61.7	0.0	0.0	0	0	0	0	0	11	72.7
H13	0	0	0.0	61.3	0.0	0.0	0	0	0	0	0.0	11	72.3
H14	0	0	0.0	61.2	8.5	5.3	0	0	0	0.0	0.0	11	86.0
H15	0	0	0.0	59.8	9.0	5.3	0.0	0.0	0.0	0.0	0.0	13	87.2
H16	0	0	0.0	57.5	9.1	5.4	0.0	0.0	0.0	0.0	0.0	13	85.0
H17	0	0	0.0	54.0	8.8	5.5	0.0	0.0	0.0	0.0	0.0	13	81.3
H18	0	0	0.0	50.4	7.8	5.3	0.0	0.0	0.0	0.0	0.0	13	76.5
H19	0	0	0.0	0.0	0.0	5.3	0	0.0	0.0	0.0	0.0	0	5.3

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Table KS-27													
2010 Hourly Load Impact Day-Ahead Programs 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
H12	35.0	3.0	0.0	63.9	0.0	0.0	0	0	0	0	0	22	101.9
H13	35.1	3.0	0.0	63.4	0.0	0.0	0	0	0	0	0.0	22	101.5
H14	46.9	3.0	0.0	63.4	0.0	6.3	0	0	0	0.0	0.0	22	141.6
H15	47.1	3.0	0.0	61.9	10.2	6.3	0.0	0.0	0.0	0.0	0.0	26	154.5
H16	55.2	3.0	0.0	59.4	10.9	6.5	0.0	0.0	0.0	0.0	0.0	26	135.0
H17	46.7	3.0	0.0	55.9	10.9	6.6	0.0	0.0	0.0	0.0	0.0	26	123.0
H18	42.0	3.0	0.0	52.2	10.6	6.4	0.0	0.0	0.0	0.0	0.0	26	114.1
H19	0	0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0	6.4

Table KS-28													
2011 Hourly Load Impact Day-Ahead Programs 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
H12	66.9	11.0	17.0	64.9	0.0	0.0	0.0	0.0	0.0	0	0	33	192.9
H13	67.0	11.0	16.9	64.4	0.0	0.0	0.0	0	0	0	0.0	33	192.4
H14	89.5	11.0	16.9	64.4	0.0	7.4	0.0	0	0	0.0	0.0	33	222.2
H15	89.9	11.0	16.5	62.9	12.7	7.4	0.0	0.0	0.0	0.0	0.0	39	239.4
H16	105.4	11.0	15.9	60.4	12.8	7.6	0.0	0.0	0.0	0.0	0.0	39	252.0
H17	89.1	11.0	14.9	56.8	12.4	7.6	0.0	0.0	0.0	0.0	0.0	39	230.8
H18	80.1	11.0	13.9	53.1	10.9	7.4	0.0	0.0	0.0	0.0	0.0	39	215.4
H19	0.0	0.0	0.0	0.0	0.0	7.5	0	0.0	0.0	0.0	0.0	0	7.5

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Table KS-29													
2009 Day-Of Early Notice Load Impacts (MW) 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0	0	0.0	0	0	0	0	0	0	0	0	0.0
H12	0	0	0	0.0	0	0	0	0	0	0	0	0	0.0
H13	0	0	0	0.0	0	0	0	0	0	0	0.0	0.0	0.0
H14	0	0	0	0.0	0	0.0	0	0	0	0.0	0.0	0.0	0.0
H15	0	0	0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	1.0	5.9
H16	0	0	0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	1.0	5.1
H17	0	0	0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	1.0	3.6
H18	0	0	0	0.0	0.0	0.0	2.5	0.0	0.0	0	0.0	1.0	3.5
H19	0	0	0	0	0	0.0	0	0.0	0	0	0	0	0.0

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Table KS-30													
2010 Day-Of Early Notice Load Impacts (MW) 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0.0	0	0	0	0	0	0	0	0	0	0	0	0.0
H12	35.0	3.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	38.0
H13	35.1	3.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	38.1
H14	46.9	3.0	0.0	0.0	0.0	0.0	0	0	0	0.0	0.0	0.0	49.9
H15	47.1	3.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	2.0	57.7
H16	55.2	3.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	2.0	65.0
H17	46.7	3.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	2.0	54.9
H18	42.0	3.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0	0.0	2.0	50.2
H19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0

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Table KS-31													
2011 Day-Of Early Notice Load Impacts (MW) 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0.0	0	0	0	0	0	0	0	0	0	0	0	0.0
H12	66.9	11	0	0	0	0	0.0	0	0	0	0	0.0	77.9
H13	67.0	11	0	0	0	0.0	0.0	0	0	0	0.0	0.0	78.0
H14	89.5	11	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	100.5
H15	89.9	11	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	3.0	110.2
H16	105.4	11	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	3.0	124.9
H17	89.1	11	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	3.0	107.0
H18	80.1	11	0.0	0.0	0	0.0	3.9	0.0	0.0	0	0.0	3.0	98.0
H19	0.0	0	0.0	0	0	0	0	0.0	0	0	0	0	0.0

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Table KS-32													
2009 Day-Of 30 minutes Notice Hourly Load Impact (MW) 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0	0	0.0	0	0	0	0.0	0.0	0.0	0.0	0	0.0
H12	0	0	0	0.0	0	0	0	0.0	0.0	0.0	0.0	0	0.0
H13	0	0	0	0.0	0	0	0	0.0	0.0	0.0	2.2	0.0	2.2
H14	0	0	0	0.0	0	0	0	0.0	0.0	0.0	2.6	0.0	2.6
H15	0	0	0	0.0	0	0	0.0	9.8	6.7	5.1	2.6	0.0	24.2
H16	0	0	0	0.0	0	0	0.0	11.6	6.8	5.2	2.6	0.0	26.2
H17	0	0	0	0.0	0	0	0.0	11.4	4.8	5.0	2.6	0.0	23.8
H18	0	0	0	0.0	0	0	0.0	9.8	3.9	4.7	2.2	0.0	20.6
H19	0	0	0	0	0	0	0	-3.7	0.0	0.0	0.0	0	-3.7

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Table KS-33													
2010 Day-Of 30 minutes Notice Hourly Load Impact (MW) 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0	0
H12	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
H13	0	0	0	0	0	0	0	0.0	0.0	0.0	2.2	0.0	0.0
H14	0	0	0	0	0	0	0	0.0	0.0	5.0	2.6	0.0	7.6
H15	0	0	0	0	0	0	0.0	11.6	8.7	5.1	2.6	0.0	28.1
H16	0	0	0	0	0	0	0.0	13.8	9.0	5.2	2.6	0.0	27.9
H17	0	0	0	0	0	0	0.0	13.5	6.2	5.0	2.6	0.0	24.8
H18	0	0	0	0	0	0	0.0	11.6	5.1	4.7	2.2	0	21.4
H19	0	0	0	0	0	0	0.0	-4.4	0.0	0.0	0.0	0	-4.4

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Table KS-34													
2011 Day-Of 30 minutes Notice Hourly Load Impact (MW) 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0	0
H12	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H13	0	0	0	0	0	0	0.0	0.0	0.0	0.0	2.2	0.0	2.2
H14	0	0	0	0	0	0	0.0	0.0	0.0	0.0	2.6	0.0	2.6
H15	0	0	0	0	0	0	0.0	11.6	8.7	5.1	2.6	0.0	28.1
H16	0	0	0	0	0	0	0.0	13.8	9.0	5.2	2.6	0.0	30.5
H17	0	0	0	0	0	0	0.0	13.5	6.2	5.0	2.6	0.0	27.4
H18	0	0	0	0	0	0	0.0	11.6	5.1	4.7	2.2	0	23.6
H19	0	0	0	0	0	0	0	-4.4	0.0	0.0	0.0	0	-4.4

1           **2.           Breakdown of portfolio by trigger**

2           Another way to break down the portfolio is by trigger. For the day-ahead programs PTR  
3 and CPPD have the same trigger for Tuesday through Saturday. These programs can be  
4 triggered based on system load the day-before an event, forecasted temperature, and by CAISO  
5 alerts or local resource needs. PTR events can be triggered on Sunday but CPPD events cannot.  
6 For Monday events CPD requires notification to be provided by Friday, whereas PTR customers  
7 can be notified on Sunday. The last difference between the two triggers is that although PTR is  
8 intended to be called primarily the day before events it can also be called the day-of an event.  
9 The other day-ahead program is the CBP program. This program is triggered by heat rate. The  
10 total load enrolled on programs triggered a day-ahead was already provided in the break down of  
11 programs by notification period presented in table KS-26 through KS-28. These tables also  
12 contains the individual load for the CPPD program, PTR program and CBP day-ahead program  
13 providing information which shows what the breakdown down by individual trigger is.

14           Another trigger category is the day-of emergency trigger. SDG&E has two programs in  
15 this category the CPPE program and the BIP program. BIP can be triggered based on CAISO  
16 stage 2 alerts, CAISO calls for interruptible load and by extreme weather conditions. CPPE can  
17 be triggered by local utility emergencies and by CAISO special alerts. This category is called  
18 the day-of emergency trigger category and results for this category are displayed in tables KS-35.  
19 Because the load impacts assume no growth for these programs for 2009-2011 the results are the  
20 same for all three years and only one table is provided

21           There are two day-of programs that do not require a CAISO alert or local system  
22 emergency to be triggered. These are the Summer Saver program and the CBP day-of. program.  
23 The summer saver program can be triggered based on system load or heat rate and by CAISO

1 alerts or other system emergencies. The CBP day-of program is triggered by heat rate by 9am  
 2 the day-of the event. This trigger category is referred to as the non-emergency day-of triggers  
 3 and results for this category are presented in tables KS-36 to KS-38 below.  
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Table KS-35													
2009-2011 Day-Of Emergency Trigger Load Impact (MW) 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
H12	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
H13	0	0	0	0	0	0	0	0	0.0	0.0	2.2	0.0	2.2
H14	0	0	0	0	0	0	0	0	0.0	0.0	2.6	0.0	2.6
H15	0	0	0	0	0	0	0	0	0.0	5.1	2.6	0.0	7.7
H16	0	0	0	0	0	0	0	0	0.0	5.2	2.6	0.0	7.8
H17	0	0	0	0	0	0	0	0	0.0	5.0	2.6	0.0	7.6
H18	0	0	0	0	0	0	0	0	0.0	4.7	2.2	0.0	6.9
H19	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0

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Table KS-36													
2009 Day-Of Non-emergency trigger 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H12	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H13	0	0	0	0	0	0	0.0	0.0	0.0	0.0	2.2	0.0	2.2
H14	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H15	0	0	0	0	0	0	4.9	9.8	6.7	0.0	0.0	1.0	22.3
H16	0	0	0	0	0	0	4.1	11.6	6.8	0.0	0.0	1.0	23.5
H17	0	0	0	0	0	0	2.6	11.4	4.8	0.0	0.0	1.0	19.7
H18	0	0	0	0	0	0	2.5	9.8	3.9	4.7	0.0	1.0	21.9
H19	0	0	0	0	0	0	0.0	-3.7	0.0	0.0	0.0	0.0	-3.7

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Table KS-37													
2010 Day-Of non-emergency trigger for a 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0	0	0	0	0	0	0	0	0	0	0	0
H12	0	0	0	0	0	0	0	0	0	0	0	0	0.0
H13	0	0	0	0	0	0	0	0	0	0	2	0	2.2
H14	0	0	0	0	0	0	0	0	0	5	3	0	7.6
H15	0	0	0	0	0	0	6	12	9	5	3	2	35.7
H16	0	0	0	0	0	0	5	14	9	5	3	2	37.3
H17	0	0	0	0	0	0	3	14	6	5	3	2	32.6
H18	0	0	0	0	0	0	3	12	5	5	2	2	28.8
H19	0	0	0	0	0	0	0	-4	0	0	0	0	-4.4

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Table KS-38													
2011 day-of non-emergency trigger for a 1 in 2 weather year													
Hour Ending	PTR Res	PTR Com	CPPD Med	CPPD Lg	CBP DA4	CBP DA6	CBP DO4	SS Res	SS Com	BIP	CPPE	TI	Total
H11	0	0	0	0	0	0	0	0	0	0	0	0	0
H12	0	0	0	0	0	0	0	0	0	0	0	0	0.0
H13	0	0	0	0	0	0	0	0	0	0	2	0	2.2
H14	0	0	0	0	0	0	0	0	0	0	3	0	2.6
H15	0	0	0	0	0	0	6	12	9	5	3	3	37.4
H16	0	0	0	0	0	0	5	14	9	5	3	3	39.0
H17	0	0	0	0	0	0	4	14	6	5	3	3	34.3
H18	0	0	0	0	0	0	4	12	5	5	2	3	30.5
H19	0	0	0	0	0	0	0	-4	0	0	0	0	-4.4

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### 3. Breakdown of Portfolio by Customer Type:

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SDG&E's testimony does not contain a portfolio breakdown of load impacts by NAICS code. SDG&E cannot provide a more detailed breakdown of the default CPP estimate by NAICS code. The default CPP forecast is based on the results of the SPP commercial pilot. The commercial portion of the Statewide Pricing Pilot was conducted in the years 2004 and 2005 and all of the commercial customers who participated in this pilot were in Edison's service territory. SDG&E does not have the raw data from this study to use to re-estimate the CPP load impacts by

1 different NAICS code groups. In addition the SPP used a sample of 83 customers which is too  
2 small of a sample to provide a reliable estimate of the load impact broken down into eight  
3 NAICS code groups. SDG&E's default CPP forecast was already adopted by the commission in  
4 the AMI decision D-07-04-043 so in order to consistent with past proceedings SDG&E does not  
5 believe that a large change in the methodology for estimating default CPP when no default CPP  
6 event data is available is appropriate. SDG&E has agreed to provide load impacts for the CBP,  
7 CPPE, BIP and TI programs broken down by NAICS code as a data request by the end of  
8 October.

## 9 **VII. MEASUREMENT AND EVALUATION**

### 10 **1. Introduction**

11 The overall objective of the Demand Response Measurement and Evaluation ("M&E")  
12 effort is to provide the Commission, utilities, and other interested parties with a systematic  
13 evaluation of demand response ("DR") implementation activities and customer response to those  
14 activities. Specifically, M&E quantifies the amount of demand response that can be achieved  
15 from customers served by the California Investor Owned Utilities ("IOUs") through its Demand  
16 Response Programs, provides information to improve existing programs and eliminates  
17 unsuccessful programs. Additionally, the M&E process can offer recommendations on market  
18 potential, demand impact estimate refinements and cost/benefit analysis methods that can lead to  
19 new programs and ultimately improve the cost-effectiveness of demand response activities.  
20 Included in the evaluation effort is the need to monitor other markets, statewide and nationally,  
21 for demand response program features, impacts, and evaluation techniques.



1       **2. Demand Response Measurement and Evaluation Background**

2       Early Measurement and Evaluation Efforts. The statewide demand response M&E  
3 effort began in 2003 with activities authorized in D.03-06-032. This decision adopted the  
4 comprehensive monitoring and evaluation plan proposed by Working Group 2 (“WG2”) in its  
5 December 13, 2002 report, as augmented by its March 11, 2003 report. The plan outlined M&E  
6 activities in an effort to provide information that could improve the cost-effectiveness of demand  
7 response activities going forward.

8           In 2003, following the CPUC direction provided in D.03-06-032 the IOUs and agency  
9 staff began a cooperative comprehensive evaluation of all programs authorized in that decision.  
10 The collaborative group was referred to as the WG2 Measurement and Evaluation subcommittee.  
11 Early in 2004, the traditional interruptible programs and the California Power Authority’s  
12 Demand Reserves Partnership (“CPA DRP”) were added to the scope at the direction of the  
13 WG2 facilitators: the California Energy Commission (“CEC”) and the CPUC Energy Division.  
14 On January 27, 2005 the CPUC issued D.05-01-056 approving 2005 Demand Response Goals,  
15 Programs and Budgets. The decision provided authorization of and funding for 2005 DR  
16 programs as well as approving the general scope of the proposed M&E activities. On April 21,  
17 2005 the Commission issued D.05-04-053, an opinion addressing the default CPP rates for  
18 customers 200 kW and greater. In the Decision, the Commission states that it is “particularly  
19 interested in additional work by WG2 on how we can utilize the impact assessment information  
20 gained from evaluating CPP and demand response programs can be integrated into the  
21 Commission’s resource planning process.....we are interested in seeing protocols developed,  
22 based on M&E results, to allow demand response resources to be counted for resource adequacy

1 purposes.”<sup>5</sup> SDG&E’s 2006-2008 Demand Response program and budgets were approved in  
2 D. 06-03-024 and again the Commission directed that “the current oversight of M&E by the  
3 Working Group 2 Measurement and Evaluation subcommittee shall continue for the programs  
4 and budgets approved in this order”.<sup>6</sup> On November 30<sup>th</sup>, 2006 D.06-11-049 authorized 2007  
5 IOU program augmentations and continued the WG2 M&E subcommittee oversight under the  
6 more appropriate name of the Demand Response Measurement and Evaluation Committee  
7 (“DRMEC”). The decision also states that the CEC and Energy Division will continue to  
8 supervise the M&E activities as originally authorized in D.03-06-032, D.06-03-024. Currently,  
9 statewide M&E on statewide demand response tariffs and programs being carried out is under  
10 the guidance of the DRMEC project advisory committee, which consists of representatives from  
11 the California utilities and both state commissions.

12           Beginning in April 2004 early Demand Response studies included: The Summary of the  
13 Phase I Research submitted on April 8, 2004, the WG2 Non-Participant Market Survey  
14 submitted on August 5, 2004 and a Mid-Summer Interim presentation made at the September 2,  
15 2004 WG2 workshop that included a high level process evaluation for all DRP programs  
16 (including the statewide reliability programs) and the Demand Response Program Evaluation  
17 Final Report for 2004 programs issued in December 2004. Starting in 2006, more detailed  
18 reporting of Demand Response Load Impacts were studied. Major studies included: The  
19 Process Evaluation of Selected California 2005 Demand Response Education, Awareness and  
20 Outreach Programs (4/27/06). Evaluation of 2005 Statewide Large Nonresidential Day-Ahead  
21 and Reliability Demand Response Programs (4/28/06), the Evaluation of the California  
22 Statewide 20/20 Demand Reduction Programs (6/6/06), Process Evaluation of the 2004/2005

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<sup>5</sup> D. 05-04-053 at p 55.

<sup>6</sup> D.06-03-024 at p 19.

1 Flex Your Power Now! Statewide Marketing Campaign (7/24/06). For a complete listing of  
2 demand response studies completed to date please go to the CALMAC website.

3 The recent load impact protocol decision D.08-04-050 stated that DR activities should be  
4 evaluated according to the load impact protocols and that these evaluations should include both  
5 an estimate of the historical load impact (ex-post ) and a forecast (ex-ante) of the demand  
6 response. These protocols also require an evaluation plan for each DR program to be submitted  
7 to the DRMEC committee. Detailed discussion of M&E plans should be conducted through the  
8 evaluation plan process not through this testimony. However, a brief description of the type of  
9 evaluation planned for each program is included here in order to explain and justify the proposed  
10 M&E budget.

11 **3. Measurement and Evaluation Budget for 2009-2011**

12 Starting with 2009, each utility will likely have unique tariffs or programs that will  
13 require some degree of measurement and evaluation. To the extent that load impact evaluations  
14 are required the Commission adopted Load Impact Protocols will be followed. The DRMEC  
15 will oversee these research activities. SDG&E proposes a budget for M&E that is inclusive of  
16 the M&E for all of the proposed programs and activities.

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Table KS-39			
SDG&E Measurement & Evaluation Activities	2009	2010	2011
<b><i>Day Ahead Tariffs and Programs (Pricing)</i></b>			
Critical Peak Pricing	\$198,000	\$308,000	\$99,000
Capacity Bidding Program	\$22,000	\$33,000	\$22,000
Demand Reserves Program (Aggregators)	\$22,000	\$33,000	\$22,000
Peak Time Rebate	\$0	\$330,000	\$220,000
Summer Saver	\$220,000	\$137,500	\$220,000
<b><i>Day Of Tariffs and Programs (Reliability &amp; Emergency)</i></b>			
Base Interruptible Program	\$22,000	\$22,000	\$22,000
Critical Peak Pricing Emergency	\$22,000	\$22,000	\$11,000
<b><i>Education Awareness and Outreach</i></b>			
Flex Alert Network	\$88,000	\$88,000	\$88,000
General Education and Outreach Programs	\$66,000	\$0	\$66,000
Residential Automated Control Pilot	\$0	\$90,750	\$90,750
<b><i>Other Statewide Evaluation Activities and Developmental Research</i></b>			
TA and TI / Auto DR	\$16,500	\$55,000	\$16,500
Permanent Load Shifting Evaluation	\$27,500	\$27,500	\$27,500
Customer Research Studies	\$82,500	\$82,500	\$82,500
Load Impact & Cost Effective Protocol Development	\$55,000	\$55,000	\$55,000
Demand Response Forecasting Application Development	\$88,000	\$55,000	\$55,000
<b><i>Labor to support M&amp;E studies</i></b>			
M&E Analytical Support 2 FTE's	\$237,600	\$245,916	\$255,309
<b>Total</b>	<b>\$1,167,100</b>	<b>\$1,585,166</b>	<b>\$ 1,352,559</b>

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#### 4. Measurement and Evaluation Description for 2009 - 2011.

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On 2/27/2008 the CPUC issued an "ALJ Ruling Providing Guidance on Content and Format of 2009-2011 Demand Response Activity Applications". This guidance document provides expected scope on content of the 2009-2011 application. Included in the guidance is

1 the Commission's expectation of a comprehensive review of DR activities and budgets. The  
2 Commission's goal is to focus on all DR activities including: "price responsive" and "reliability  
3 triggered" categories as in past applications. Also included are "emergency triggered" programs,  
4 and even programs and rates that were also reviewed in the utilities' general rate cases (GRCs).  
5 The goal is to have a comprehensive look at all DR activities.<sup>7</sup> The Measurement and Evaluation  
6 Activities proposed in this application include programs and rates that have been approved in  
7 other applications such as: SDG&E's GRC Phase 2 D.08-02-034 and in SDG&E's AMI case  
8 D.07-04-043.

9 Beginning in 2009, SDG&E will have pricing and reliability tariffs or programs that will  
10 require some degree of measurement and evaluation. To the extent these programs are not  
11 evaluated with the other statewide M&E, SDG&E plans to conduct the research locally and work  
12 with the DRMEC to ensure that the program evaluation plans and the report drafts are provided  
13 to the DRMEC for input as consistent with the Load Impact Protocols Proposed Decision.  
14 Evaluation and research activities discussed in this chapter are organized under the following  
15 categories:

- 16 **A. "PRICING" PROGRAMS AND REBATES**
- 17 **B. "RELIABILITY" AND "EMERGENCY" PROGRAMS AND RATES**
- 18 **C. MARKETING AND OUTREACH**
- 19 **D. OTHER EVALUATION ACTIVITIES AND DEVELOPMENTAL RESEARCH.**

20  
21 There is also a distinction as to whether the program is a statewide or a local study effort.  
22 Organizing and discussing the evaluations in this manner is the most efficient approach because

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<sup>7</sup> Administrative Law Judge's Ruling Providing Guidance on Content and Format of 2009-2011 Demand Response Activity Applications, 2/27/08.

1 the various program evaluations have similar data requirements and are collected from the same  
2 finite population of respondents.

3 **A. Pricing Programs: Recommendations for Future Measurement and Evaluation**  
4 **of Day Ahead Pricing Demand Response Programs**

5 SDG&E recommends that it continue statewide DR efforts for M&E as approved most  
6 recently in D.06-03-024 and in D.06-11-049. SDG&E proposes to conduct measurement and  
7 evaluation activities on all of the following 2009-2011 programs.

- 8 • Critical Peak Pricing – Default
- 9 • Capacity Bidding Program
- 10 • Peak Time Rebate (2010-2011)
- 11 • Summer Saver

12 Critical Peak Pricing – Default (CPP-D). SDG&E's voluntary Critical Peak Pricing  
13 (CPP) rate has been evaluated on a statewide basis since 2004. SDG&E's new CPP-D rate is the  
14 default rate starting on May 1<sup>st</sup> 2008<sup>8</sup>. CPP-D is a demand response rate option that provides  
15 customers with an opportunity to manage their electric costs by either reducing load during high  
16 cost pricing periods or shifting load from high cost pricing periods to lower cost pricing periods.  
17 Customers shall be provided with the option to self-select and reserve a level of generation  
18 capacity, specified in kW, that would protect that portion of their load from the CPP-D Period  
19 rates applicable during a CPP Event.

20 Customers may opt out of the CPP-D rate onto other demand response rates/programs or  
21 onto SDG&E's ALTOU rate. SDG&E proposes that CPP-D be evaluated locally until it can be  
22 included as a joint-utility program evaluation along with the other IOU's default CPP rates.

23 SDG&E's Default CPP rate structure is different than its previous voluntary CPP rate. This new

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<sup>8</sup> D.08-02-034 was issued February 29, 2008. In the decision, the Commission adopted a settlement agreement in SDG&E's 2008 General Rate Case, Phase 2 (A. 07-01-047) which included the CPP Default rate.

1 CPP rate structure will be included in the evaluations. The impact evaluation planning process  
2 and scope will be done in accordance to the load impact protocols as prescribed in the schedule  
3 that is adopted by the CPUC. The proposed budget for this program assumes that the rate will  
4 initially be evaluated locally by SDG&E in 2009 and 2010 and assumes the 2011 evaluation will  
5 be statewide. The budget includes funding for both impact and process evaluations.

6 Capacity Bidding Program. The Capacity Bidding Program (CBP) is a voluntary demand  
7 response program that offers customers various product options by which participants can earn  
8 incentive payments in exchange for reducing energy consumption when requested by SDG&E.  
9 The CBP is open to any commercial, industrial or agricultural customer with an interval meter.  
10 Working directly through SDG&E or through an aggregator, customers choose the event  
11 duration that best fits with their operational needs. Curtailment durations are pre-selected by  
12 CBP participants and are available in increments of 1-4, 2-6, or 4-8 hours. The measurement and  
13 evaluation budget for this program assumes that a statewide load impact study of the program  
14 and other programs involving aggregators will be conducted each year from 2009-2011.Peak  
15 Time Rebate (PTR)<sup>9</sup>. SDG&E's Schedule PTR provides residential customers and small  
16 commercial customers with peak demands of less than 20 kW with a tiered incentive to reduce  
17 electric usage below an established customer reference level (CRL) on high demand days. A  
18 higher level incentive (\$1.25/kWh) is provided to customers with enabling technology and a  
19 lower level incentive (\$0.75/kWh) to customers without such technology. The measurement and  
20 evaluation budget for this program includes estimates of the funding required for a load impact  
21 evaluation of the program in 2010 and 2011 and also includes additional funds for process

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<sup>9</sup> D.08-02-034 was issued February 29, 2008. In the decision, the Commission adopted a settlement agreement in SDG&E's 2008 General Rate Case, Phase 2 (A. 07-01-047) which included the Peak Time Rebate program.

1 studies. Both SCE and SDG&E are planning to evaluate this rate in 2010 but SDG&E has  
2 planned for enough funding in 2010 to do a local evaluation if necessary.

3 Summer Saver. SDG&E's Summer Saver program is primarily an air conditioning  
4 cycling program that is offered to both residential and small commercial customers. SDG&E  
5 plans to run this program in conjunction with SDG&E's day-ahead Peak Time Rebate (PTR)  
6 program by 2010. Residential load impacts for Summer Saver will be calculated using energy  
7 consumption data collected from a random sample of more than 100 program participants'  
8 premises, selected early in the first year of the program. The residential class has two cycling  
9 strategy options: 50% and 100%. A year after the 100% option was made available, a second  
10 random sample was drawn from participants subject to 100% cycling. The measurement and  
11 evaluation will be conducted by a third-party contractor hired by SDG&E and load impacts will  
12 be calculated in conformance with the CPUC's recently adopted load impact protocols. Funds to  
13 conduct a process evaluation of the program every other year are also included in the budget.

14 **B. "Reliability" and "Emergency" programs and rates**

15 SDG&E recommends that it continue statewide DR efforts for M&E as approved most  
16 recently in D.06-03-024 and D.06-11-049. SDG&E proposes to conduct statewide M&E on the  
17 following programs:

18 Base Interruptible Program ("BIP")

19 Critical Peak Pricing Emergency ("CPP-E")

20 BIP, CPP-E, are triggered by local emergency conditions or at the statewide level by the  
21 ISO. A brief explanation of each of these programs is provided: The Base Interruptible Program  
22 (BIP) is a voluntary program which offers participants a monthly capacity bill credit in exchange  
23 for committing to reduce their demand to a contracted Firm Service Level on short notice during



1 emergency situations, such as a CAISO Stage 2 or local utility emergencies. A penalty is  
2 imposed for non-performance during BIP events.

3 CPP-E is a “day of” demand response rate. Customers on CPP-E must reduce loads at  
4 the next full 15-minute meter interval following the 30-minute advance notification. An alert  
5 period may not exceed more than a 6 hour period in one day.

6 The budget assumes that the load impact CPP-E will be evaluated in the same study as  
7 CPP-D and that the load impact for BIP can be evaluated either with the capacity bidding  
8 program or as a small part of a statewide BIP analysis. Therefore a small amount of M&E  
9 funding is allocated to these programs to cover the incremental costs of including these programs  
10 in broader studies.

### 11 **C. Marketing and Outreach**

12 Education Awareness and Outreach: The Customer Education, Awareness and Outreach  
13 Programs are a comprehensive, multi-faceted marketing/communications effort that entails a  
14 variety of initiatives aimed at increasing customer knowledge, understanding of demand  
15 response and inciting behavior change/action. This effort is essential to the successful  
16 communication, participation and execution of the overall demand response program portfolio.  
17 These initiatives provide the foundation for delivering demand response benefits to customers,  
18 and will complement the program specific marketing efforts to acquire new customers, retain  
19 existing customers and encourage participation when called upon. The various general  
20 awareness and education initiatives are intended to increase the overall awareness and  
21 understanding of 1) the demand response concept; 2) the benefits demand response delivers to  
22 customers; and 3) the importance of demand response programs in the customers energy  
23 management mix.

1 SDG&E proposes to conduct statewide measurement and evaluation on the following  
2 Education Awareness and Outreach programs:

- 3 Flex Alert Network
- 4 General Education and Awareness (includes SDG&E's PEAK program)
- 5 Emerging Markets (SDG&E technology pilot)

6 The demand response budget includes funds for a statewide process evaluation each year  
7 of the Flex Alert Network. It also allows for a process evaluation of some of SDG&E's general  
8 education and awareness programs such as peak student, the business collaborative outreach  
9 program and the education awareness and outreach umbrella campaign.

10 Residential Automated Control Pilot The 2009-2011 Residential Automated Control  
11 Pilot Program will test, implement and evaluate several new and existing automated load  
12 reduction enabling technologies within the Residential Sector. The resulting effects of this pilot  
13 program will facilitate the promotion of new and existing enabling technologies that will achieve  
14 load reduction goals during critical peak energy usage periods. SDG&E plans to evaluate the  
15 pilot locally. The primary focus of the evaluation will be an assessment of technology  
16 acceptance. Demand response load impacts will also be measured as soon as interval data from  
17 the new Smart Meters becomes available. A more detailed description of the M&E research  
18 questions that will be addressed by the pilot can be found in the description of the pilot that  
19 begins on page 53 of Mark Ward's testimony.

20 **D. Other Evaluation Activities and Developmental Research:**

21 SDG&E recommends conducting statewide research on the following activities and  
22 programs:

- 23 • Technical Assistance and Technical Incentives and Auto DR
- 24 • Permanent Load Shifting

- 1 • Customer Research Studies
- 2 • Load Impact (ex post and ex ante) and Cost Effectiveness Protocol Development
- 3 • Demand Response Forecasting Application Development

4 Technical Assistance and Technical Incentives. The Technical Assistance and  
5 Technology Incentives Program (TA/TI) is available to customers to offer assistance in  
6 identifying and installing measures to reduce electric demands. The TA/TI Program offers  
7 customers assistance in site assessments to identify their ability to monitor and reduce their  
8 electric load in the event of a potential electricity shortage. Participants may receive a free on-  
9 site assessment provided by SDG&E, or may utilize their own engineering firm or contractor to  
10 perform a site assessment, and may have a portion of the cost of that assessment reimbursed.

11 Currently TA/TI is being evaluated on a statewide basis. The process evaluation is  
12 expected to be completed by 3<sup>rd</sup> quarter 2008. Based on the evaluation feedback, it is expected  
13 that the utilities will re-evaluate the programs in 2010. For 2009, the Technical Assistance and  
14 Technical Incentive Program evaluation be included in the statewide analysis and SDG&E  
15 recommends that these two programs be included in the statewide analysis through 2011. The  
16 statewide evaluations will also include the Auto DR component. No separate impact evaluation  
17 for the TI program is planned because measurement of the impact of TI will occur within the  
18 evaluations of the demand response programs that TI customers sign up for.<sup>10</sup>

19 Permanent Load Shifting (PLS). PLS Permanent Load Shifting (PLS) occurs when a  
20 customer moves energy usage from one time period to another on an ongoing basis. In the RFP  
21 issued by SDG&E, PLS of customer end-use equipment is to occur, at a minimum from the  
22 period of 11:00 a.m. to 6:00 p.m. to the period of 6:00 p.m. to 11:00 a.m. each weekday (Monday

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<sup>10</sup> The Automated Demand Response (AutoDR) component of the TI Program provides a financial incentive of \$300/kW intended to encourage customer adoption and installation of technology designed to link facility energy management control systems with external utility generated price or emergency signals.

1 through Friday), excluding holidays, during the summer months May 1st through October 31st.  
2 This is a relatively new DR program and SDG&E expects to evaluate its effectiveness and load  
3 impacts on a statewide basis to the extent possible.

4 Customer Research Studies. The IOUs in cooperation with the DRMEC propose to  
5 conduct statewide demand response studies of a more general nature, not specific to the existing  
6 statewide programs. In addition to evaluating the operational programs by documenting and  
7 assessing program marketing and implementation, the utilities propose to conduct customer  
8 behavioral research that identify and characterize program participants and non participants. For  
9 the 2009-2011 portfolio cycle, the joint utilities represented on the DRMEC recommend  
10 conducting research to examine methods of customer outreach including marketing techniques,  
11 media, Web tools etc. with the goal to improve overall program effectiveness. In addition, the  
12 utilities recommend conducting methodological issues research to increase understanding of DR  
13 participation of program enrollees, especially related to customer response to multiple demand  
14 side options; energy efficiency, self generation demand response etc.

15 Load Impact (ex post and ex ante) and Cost Effectiveness Protocol Development. On  
16 April 24<sup>th</sup>, 2008 the CPUC approved the Load Impact Protocols in D.08-04-050. The protocols  
17 provide guidance on how to estimate ex post and ex ante load impacts under a variety of  
18 scenarios. This is the first CPUC decision regarding the estimation of load impacts with respect  
19 to demand response activities. The Load Impact Protocols will need further work and refinement  
20 as they are implemented during the next program cycle. The proposed protocols for DR Cost  
21 Effectiveness are currently under CPUC review. SDG&E believes that work for CE will  
22 continue throughout the next several years. Therefore, funding will be necessary to continue to  
23 refine and update both the load impact and cost effectiveness protocols.

1           Demand Response Forecasting Application Development. On September 21, 2006 FERC  
2 issued an Order in which the CAISO was directed to work with market participants to present  
3 additional opportunities for demand response resources to participate in the CAISO market and  
4 to work with Load Serving Entities to develop methods for the accounting of expected demand  
5 response within RUC procurement. In response, a working group has been formed by the  
6 CAISO to incorporate a demand response forecast into MRTU release 1. For day-ahead  
7 programs, this working group has requested SDG&E to provide to the CAISO a demand  
8 response forecast by 10 A.M. the day before an event. For day-of programs, SDG&E is to  
9 provide a forecast as soon as possible but no later than 75 minutes before an event. SDG&E is  
10 also required to report the actual demand response achieved to the CAISO<sup>11</sup>.

11           SDG&E is currently developing and implementing an hourly demand response  
12 forecasting model to be utilized by SDG&E's electric procurement and the ISO. This model is  
13 being developed so that SDG&E can provide hourly estimates of load reductions for two main  
14 categories of demand response activities: Day-Ahead Notifications where customers are notified  
15 of the need to reduce demand on a day-ahead basis, and Day-Of-Notification where customers  
16 are notified on the day that demand reductions are required. This hourly DR forecasting model  
17 will require on-going maintenance and the updating of load impact models as SDG&E's day  
18 ahead and day of programs evolve.

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20           This concludes my direct testimony.

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<sup>11</sup> CAISO Demand Response Resource User Guide: Guide to Participation in MRTU Release 1, November 29, 2007  
Version 3.0

1 **VIII. QUALIFICATIONS**

2 My name is Kathryn E. Smith. My business address is 8306 Century Park Court, San  
3 Diego, California, 92123-1569. I am employed by San Diego Gas & Electric Company  
4 (“SDG&E”) as a Senior Market Analyst in the Load Research Department. In my position I am  
5 responsible for providing statistical analysis related to electric load research.

6 I graduated from the University of California Berkeley with a Bachelor of Arts degree in  
7 Mathematics in 1999. I received a Master of Science in Statistics from San Diego State  
8 University in 2004. I have been employed by SDG&E and Sempra Energy in the load research  
9 department since 2005.

10 I have not previously testified before the Commission.

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**Chapter 3 Appendix A**  
**Ex-Post Load Impact Details**

The ex-post load impact protocols 6, 7 and 8 require that hourly load impacts with confidence intervals for each event hour of each event be provided in a specified format. The ex-post load impact protocol 10 requires that goodness of fit statistics be provided for each analysis. This appendix contains event-specific hourly load impacts for each program and the corresponding goodness of fit statistics. The program results are in the following order, voluntary CPP, CBP, Summer Saver, CPPE, BIP.

The regression models for the voluntary CPP, CBP, CPPE and BIP programs all used separate regression models for each hour. The goodness of fit statistics are presented for all 24 hours regardless of whether the hour was an event hour or not since the protocols require that all 24 hours be estimated.

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# 1: Voluntary CPP hourly load impacts for each event.

## Event-specific load impacts – SDG&E CPP

Table A1.1

Utility: San Diego Gas & Electric

DR Program: Critical Peak Pricing (CPP)

Load Impacts for: Average Event Day

Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	59,439	61,518	2,078	70.5	4,196	2,945	2,078	1,212	-40
2	57,355	59,225	1,870	70.2	3,948	2,720	1,870	1,019	-209
3	55,611	57,233	1,622	69.6	3,937	2,569	1,622	674	-694
4	54,710	56,014	1,304	69.5	3,635	2,258	1,304	350	-1,028
5	57,339	58,829	1,491	69.3	4,019	2,525	1,491	456	-1,038
6	62,128	63,658	1,530	69.8	4,332	2,677	1,530	384	-1,271
7	68,272	69,993	1,721	72.6	4,206	2,738	1,721	703	-765
8	73,116	73,976	860	75.6	3,059	1,760	860	-40	-1,340
9	75,178	75,763	586	79.2	2,836	1,507	586	-335	-1,665
10	77,028	76,153	-874	81.8	1,535	111	-874	-1,860	-3,283
11	78,119	74,949	-3,170	83.1	-434	-2,050	-3,170	-4,290	-5,906
12	76,846	66,550	-10,296	82.6	-7,425	-9,121	-10,296	-11,471	-13,168
13	72,675	65,307	-7,368	82.5	-4,306	-6,115	-7,368	-8,621	-10,430
14	69,731	63,505	-6,226	82.2	-3,350	-5,049	-6,226	-7,403	-9,103
15	69,639	64,098	-5,542	81.9	-3,098	-4,542	-5,542	-6,542	-7,986
16	72,763	63,342	-9,421	80.4	-6,551	-8,247	-9,421	-10,596	-12,292
17	74,021	63,094	-10,927	78.8	-8,024	-9,739	-10,927	-12,115	-13,830
18	71,126	61,668	-9,458	75.9	-7,342	-8,592	-9,458	-10,324	-11,574
19	68,740	63,943	-4,797	72.9	-1,933	-3,625	-4,797	-5,970	-7,662
20	66,992	64,936	-2,056	71.7	-155	-1,279	-2,056	-2,834	-3,958
21	66,096	64,933	-1,163	71.1	912	-314	-1,163	-2,012	-3,239
22	64,655	64,448	-207	70.5	2,645	960	-207	-1,373	-3,058
23	64,079	64,441	362	70.0	4,045	1,869	362	-1,145	-3,321
24	62,277	63,081	803	71.0	4,966	2,507	803	-900	-3,360
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	1,617,936	1,560,655	-57,281	59.2	10th	30th	50th	70th	90th
					5,655	-31,528	-57,281	-83,034	-120,217

**Table A1.2**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 15, 2007**  
**Type of Results: Total for All Enrolled Customers**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	59,935	63,726	3,791	70.4	7,231	7,139	3,426	3,268	1,689
2	57,381	61,502	4,121	70.4	7,352	7,067	4,298	3,972	2,102
3	55,802	59,100	3,298	69.2	6,504	6,174	3,720	3,689	1,538
4	55,136	58,474	3,338	68.5	6,973	5,675	3,670	3,301	1,991
5	57,483	61,375	3,892	67.9	7,007	6,172	4,244	4,254	3,241
6	62,401	67,094	4,693	68.8	8,842	6,702	4,170	6,354	3,776
7	68,661	72,271	3,610	72.0	7,782	6,119	3,725	4,382	1,678
8	73,612	77,580	3,968	74.6	9,765	6,912	3,169	4,294	1,880
9	75,207	79,436	4,229	77.5	10,126	7,728	3,409	4,506	1,745
10	76,860	79,816	2,957	80.5	9,169	6,857	2,049	2,597	423
11	77,861	78,191	330	83.4	6,359	3,218	-727	-332	-2,854
12	76,092	68,348	-7,744	85.2	-6,247	-6,288	-8,328	-8,490	-9,205
13	72,530	66,357	-6,173	84.0	-3,537	-4,624	-6,505	-6,811	-8,778
14	69,471	65,291	-4,180	82.7	-734	-2,282	-3,809	-5,285	-7,573
15	69,857	66,527	-3,329	82.7	-241	-869	-2,956	-4,102	-6,546
16	73,508	65,180	-8,328	80.1	-6,156	-7,948	-8,065	-10,506	-11,296
17	75,928	64,837	-11,092	78.5	-8,859	-11,940	-11,393	-12,481	-14,526
18	74,213	63,101	-11,112	75.2	-9,543	-12,111	-11,005	-13,543	-13,780
19	71,918	67,429	-4,489	72.0	-163	-3,332	-4,918	-6,227	-7,164
20	69,874	67,595	-2,279	71.4	4,477	-1,133	-2,902	-3,648	-5,132
21	68,825	68,254	-571	71.4	6,116	594	-1,377	-1,334	-3,144
22	68,210	68,822	612	70.4	7,890	1,884	125	-215	-1,082
23	67,783	69,643	1,859	69.8	11,035	4,011	1,613	820	-146
24	64,515	67,180	2,666	70.7	10,698	5,286	2,900	1,068	225
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	1,643,060	1,627,128	-15,933	59.7	10th	30th	50th	70th	90th
					91,848	31,011	-21,466	-30,470	-70,936

**Table A1.3**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 16, 2007**  
**Type of Results: Total for All Enrolled Customers**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	61,380	64,464	3,084	69.8	6,186	2,006	4,828	2,080	103
2	58,676	61,806	3,131	69.8	6,278	2,095	4,623	2,312	-212
3	56,553	58,721	2,168	68.5	5,486	1,232	3,764	1,665	-750
4	55,693	57,736	2,043	69.8	5,802	1,444	3,459	1,385	-507
5	58,231	59,840	1,609	69.8	5,009	1,552	3,452	1,264	-987
6	62,889	63,797	907	69.2	3,806	1,324	1,963	669	-1,880
7	69,382	67,299	-2,082	72.0	1,265	-726	-493	-2,273	-5,174
8	74,555	75,170	614	76.2	4,289	1,681	1,690	345	-2,192
9	76,180	75,716	-464	80.1	2,957	720	-252	-1,225	-4,363
10	78,010	76,613	-1,396	84.2	1,967	239	-1,977	-2,480	-5,481
11	78,986	75,992	-2,995	82.3	-150	-1,283	-3,019	-4,389	-7,207
12	77,915	67,215	-10,700	81.3	-8,072	-8,267	-10,010	-12,577	-12,642
13	73,557	67,183	-6,374	82.3	-4,099	-4,105	-5,949	-8,350	-9,517
14	70,383	65,702	-4,681	81.8	-2,516	-3,297	-4,102	-4,950	-7,976
15	70,267	65,941	-4,327	81.1	-2,050	-3,205	-4,571	-4,351	-7,566
16	73,213	65,852	-7,361	81.4	-3,682	-6,226	-7,134	-8,328	-10,194
17	74,662	65,535	-9,127	81.1	-5,157	-8,388	-9,643	-10,225	-11,718
18	73,161	64,243	-8,918	78.7	-4,882	-9,026	-8,988	-9,689	-11,573
19	70,655	66,841	-3,815	74.3	100	-4,005	-4,126	-4,370	-7,562
20	68,304	66,559	-1,745	72.0	2,185	-1,301	-1,715	-2,778	-5,820
21	67,166	68,463	1,297	70.7	4,666	1,037	892	467	-3,437
22	65,968	68,835	2,867	70.7	6,361	1,931	1,944	2,300	-1,963
23	65,117	69,133	4,015	69.8	7,294	2,621	2,072	3,223	-1,833
24	62,766	66,865	4,099	70.4	6,115	3,136	3,137	3,275	-896
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
Daily	1,643,670	1,605,519	-38,151	65.6	39,157	-28,813	-30,152	-57,000	-121,348

**Table A1.4**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 17, 2007**  
**Type of Results: Total for All Enrolled Customers**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	60,647	63,859	3,213	69.2	4,526	5,230	5,263	1,462	-186
2	58,462	61,345	2,883	69.2	3,606	4,922	4,503	914	-66
3	56,757	59,378	2,621	68.5	3,026	4,455	3,946	571	-755
4	56,070	57,298	1,229	67.9	1,616	3,468	2,614	-202	-1,921
5	58,775	59,617	842	68.1	975	3,025	2,500	-313	-2,145
6	63,162	64,579	1,417	69.4	1,251	4,627	2,646	544	-1,761
7	68,960	70,201	1,240	71.2	825	4,163	3,258	1,039	-3,369
8	73,328	73,762	434	74.4	22	3,335	2,620	438	-4,369
9	74,935	77,042	2,107	78.6	1,808	5,469	4,674	1,211	-2,826
10	76,167	76,837	670	81.8	762	4,027	3,127	-830	-4,207
11	76,017	75,664	-353	81.5	611	2,076	1,353	-1,628	-3,875
12	74,290	68,126	-6,164	81.1	-2,101	-5,534	-6,858	-7,317	-7,369
13	70,173	67,947	-2,226	80.3	1,392	-1,691	-2,429	-3,172	-5,611
14	67,949	64,933	-3,016	80.9	-734	-2,008	-2,977	-4,401	-6,964
15	68,514	65,480	-3,034	80.9	-1,412	-1,404	-2,810	-4,952	-7,233
16	70,887	65,099	-5,788	80.9	-2,849	-5,978	-6,258	-7,247	-8,718
17	72,198	64,475	-7,723	78.7	-4,715	-6,987	-8,733	-9,280	-9,483
18	70,236	63,642	-6,594	76.5	-3,777	-5,283	-6,494	-7,254	-8,344
19	68,404	67,716	-687	73.0	589	2,777	952	-1,227	-3,155
20	66,676	66,887	211	72.0	1,119	4,058	2,234	-23	-2,394
21	65,590	66,637	1,047	70.7	775	4,858	3,179	638	-1,700
22	64,814	68,092	3,277	70.7	1,916	7,201	5,261	2,837	-1,098
23	64,545	68,793	4,247	69.8	2,071	8,391	6,854	3,961	-655
24	62,599	66,083	3,484	69.8	993	7,132	6,009	3,157	-1,019
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	1,610,155	1,603,491	-6,665	51.3	10th	30th	50th	70th	90th
					12,295	50,328	24,435	-31,073	-89,226

**Table A1.5**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 21, 2007**  
**Type of Results: Total for All Enrolled Customers**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	60,414	60,577	163	68.8	-984	979	1,872	486	-287
2	58,007	58,288	280	68.3	-847	852	2,315	432	-188
3	56,291	56,348	57	67.9	-403	318	1,874	-82	163
4	55,264	54,746	-518	66.7	-1,226	-395	1,286	-1,008	-531
5	57,894	57,695	-199	68.5	-611	-345	1,501	-526	220
6	62,766	63,289	523	69.8	102	987	3,005	437	1,572
7	69,906	71,617	1,711	71.4	690	1,698	5,027	1,448	2,287
8	74,259	75,376	1,116	74.6	232	991	3,786	1,580	1,151
9	76,253	76,577	324	78.2	-67	681	3,067	987	1,017
10	78,278	77,376	-901	82.7	-927	-593	1,046	-345	-807
11	78,315	76,160	-2,154	86.0	-869	-1,221	-855	-1,900	-3,168
12	77,444	67,706	-9,738	86.5	-6,338	-8,675	-9,167	-11,139	-12,248
13	73,273	66,434	-6,839	88.2	-5,719	-5,409	-6,039	-8,055	-8,646
14	70,254	64,957	-5,297	85.6	-3,942	-4,678	-4,653	-6,458	-7,585
15	70,102	65,626	-4,476	84.4	-2,422	-3,688	-4,215	-5,563	-6,671
16	72,506	64,699	-7,806	81.8	-4,694	-6,116	-8,438	-9,035	-12,160
17	72,309	64,227	-8,082	78.5	-3,399	-6,480	-9,220	-9,499	-12,129
18	69,331	61,904	-7,427	75.2	-3,494	-6,667	-9,463	-8,939	-11,264
19	67,324	63,141	-4,183	72.0	-1,371	-3,217	-5,157	-4,571	-5,954
20	66,038	64,837	-1,201	70.2	787	-23	-1,350	-1,156	-2,130
21	65,024	64,861	-163	70.2	1,538	241	-389	308	-1,093
22	63,763	62,013	-1,750	68.8	-1,040	-1,306	-1,076	-1,091	-2,276
23	63,907	60,599	-3,308	67.9	-3,704	-2,954	-2,254	-2,127	-4,223
24	62,675	59,102	-3,573	69.9	-3,233	-3,208	-2,947	-3,038	-4,293
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	1,621,599	1,558,155	-63,445	77.0	-41,942	-48,229	-40,444	-68,852	-89,243

**Table A1.6**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 29, 2007**  
**Type of Results: Total for All Enrolled Customers**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	59,197	58,510	-687	69.8	835	-1,649	-616	683	-761
2	56,938	56,801	-137	69.2	1,596	-1,559	142	1,123	78
3	55,638	54,919	-719	68.8	1,185	-2,000	208	226	-477
4	54,952	54,825	-127	68.8	2,069	-1,244	861	687	438
5	57,673	57,488	-186	66.5	1,923	-1,563	839	371	461
6	62,574	60,856	-1,717	69.2	663	-3,061	-993	-2,433	-1,636
7	68,118	69,822	1,705	73.0	5,614	479	3,008	613	1,901
8	73,049	73,616	567	75.9	4,298	-82	1,807	-922	165
9	75,001	74,961	-39	79.3	4,328	59	1,526	-1,022	-866
10	76,209	75,628	-581	80.1	3,382	292	763	-1,767	-2,035
11	77,380	73,634	-3,745	80.7	72	-2,444	-2,497	-4,914	-5,764
12	75,665	63,985	-11,680	82.7	-7,330	-10,573	-11,111	-12,198	-13,767
13	71,525	63,920	-7,605	84.0	-4,073	-7,206	-7,522	-8,823	-10,010
14	68,374	62,041	-6,333	82.1	-3,036	-5,801	-5,944	-6,898	-9,015
15	68,731	61,897	-6,835	82.5	-3,837	-5,595	-6,212	-7,765	-9,394
16	72,509	61,501	-11,008	81.1	-8,483	-10,183	-11,446	-12,033	-14,616
17	73,377	61,374	-12,003	78.5	-9,982	-10,249	-12,873	-13,492	-15,849
18	70,013	59,572	-10,441	75.8	-8,489	-7,952	-10,658	-12,074	-13,869
19	67,856	62,169	-5,687	73.9	-2,786	-3,415	-5,533	-7,443	-8,598
20	66,233	64,219	-2,014	73.6	1,134	-335	-1,540	-3,230	-4,451
21	65,740	63,961	-1,780	72.6	767	-207	-469	-2,876	-3,954
22	64,768	65,436	668	72.0	3,655	2,341	1,113	39	-1,029
23	64,505	65,775	1,271	71.4	3,867	3,196	710	384	-304
24	62,153	63,783	1,630	70.2	3,433	3,700	1,605	1,275	95
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	1,608,178	1,530,693	-77,484	57.7	10th	30th	50th	70th	90th
					-9,192	-65,050	-64,834	-92,491	-113,259

**Table A1.7**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 30, 2007**  
**Type of Results: Total for All Enrolled Customers**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	60,894	61,686	792	69.8	1,918	-144	470	3,359	-760
2	58,428	59,112	684	69.8	1,683	-161	-10	2,901	-937
3	56,434	56,717	283	69.2	1,839	-426	-579	1,761	-1,370
4	55,523	55,270	-252	69.2	1,612	-790	-693	1,245	-1,545
5	58,173	58,351	178	68.1	2,119	-646	535	1,372	-1,120
6	62,895	63,098	203	68.3	3,522	-395	266	854	-996
7	68,723	70,010	1,287	72.0	4,301	300	797	3,011	-221
8	73,835	72,143	-1,692	74.3	837	-2,484	-2,280	-185	-3,751
9	75,778	74,573	-1,205	78.1	1,774	-1,544	-2,160	341	-3,725
10	77,583	74,620	-2,963	81.5	190	-2,986	-4,257	-1,864	-5,625
11	78,894	73,652	-5,241	82.6	-2,271	-4,632	-5,936	-5,780	-8,463
12	77,953	68,219	-9,734	82.6	-7,485	-7,705	-8,768	-11,064	-13,953
13	73,327	65,109	-8,218	84.5	-6,317	-6,742	-8,813	-9,396	-13,234
14	69,973	63,810	-6,163	87.0	-3,713	-6,682	-7,866	-6,592	-9,680
15	69,770	64,049	-5,721	82.3	-2,206	-6,083	-6,259	-6,887	-7,995
16	72,840	62,402	-10,438	79.5	-7,350	-8,968	-10,819	-11,907	-13,224
17	73,630	62,049	-11,582	81.3	-7,411	-8,854	-11,546	-14,672	-14,303
18	70,804	60,530	-10,274	78.2	-6,292	-8,438	-8,924	-11,415	-12,012
19	68,535	64,974	-3,561	75.2	824	-2,822	-3,301	-3,922	-5,348
20	66,543	65,101	-1,442	73.9	3,748	-1,455	-1,782	-1,048	-3,401
21	65,830	63,173	-2,657	73.0	2,445	-2,902	-3,171	-2,844	-4,817
22	64,439	63,850	-589	72.4	4,015	-2,339	-1,275	598	-2,221
23	63,538	64,931	1,393	72.2	4,992	-1,464	1,052	3,827	807
24	61,843	66,679	4,835	71.4	8,889	1,774	4,050	6,397	4,537
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	1,626,186	1,554,109	-72,077	67.7	10th	30th	50th	70th	90th
					1,661	-76,591	-81,266	-61,909	-123,359

**Table A1.8**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 31, 2007**  
**Type of Results: Total for All Enrolled Customers**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	60,626	62,740	2,114	72.4	2,283	4,282	1,235	-590	2,206
2	58,848	59,033	185	71.8	344	2,701	90	-2,437	-40
3	57,305	57,064	-241	71.4	-275	1,856	11	-3,634	-1,412
4	56,405	55,787	-617	71.4	-564	1,535	-1,253	-4,028	-1,186
5	59,110	58,507	-603	71.8	-749	1,055	-1,475	-3,795	-1,259
6	63,740	63,787	47	70.7	-67	1,628	-442	-3,620	-833
7	68,545	68,937	391	73.4	-1,147	2,678	-2,058	-2,448	-1,235
8	73,280	72,401	-880	77.0	-2,445	1,449	-2,588	-3,331	-2,331
9	75,772	74,496	-1,277	83.4	-1,954	163	-1,946	-4,284	-3,310
10	77,679	74,871	-2,807	85.3	-2,886	-1,649	-2,764	-6,124	-4,802
11	78,626	75,156	-3,469	88.9	-2,509	-1,952	-3,042	-5,769	-6,456
12	77,317	65,470	-11,847	85.3	-7,888	-10,554	-11,793	-13,342	-15,483
13	72,545	63,187	-9,359	84.0	-5,558	-8,207	-9,949	-11,260	-12,506
14	70,050	61,377	-8,674	84.7	-5,782	-6,928	-8,382	-10,428	-12,119
15	70,310	62,949	-7,362	85.7	-5,796	-6,065	-7,249	-9,330	-11,251
16	73,247	62,315	-10,932	84.7	-7,019	-8,759	-11,321	-11,716	-14,511
17	74,739	61,354	-13,385	83.4	-8,987	-12,203	-13,118	-13,968	-16,999
18	71,681	61,198	-10,483	81.8	-5,385	-9,362	-11,545	-11,758	-13,396
19	70,111	61,677	-8,434	77.3	-4,649	-6,729	-9,424	-10,991	-11,025
20	68,114	65,659	-2,455	76.6	-62	-1,399	-5,014	-4,671	-4,964
21	67,284	65,017	-2,267	76.2	-314	-1,126	-3,440	-5,608	-5,445
22	65,869	62,907	-2,962	73.9	-2,847	-985	-5,046	-6,211	-5,472
23	64,963	64,105	-859	73.4	-1,400	2,274	-3,221	-3,839	-3,247
24	63,480	63,088	-392	72.7	108	2,424	-2,158	-3,594	-1,982
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	1,639,647	1,543,080	-96,567	104.4	-65,550	-53,874	-115,895	-156,778	-149,056



**Table A1.9**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: September 4, 2007**  
**Type of Results: Total for All Enrolled Customers**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	56,826	59,083	2,256	73.9	3,375	6,614	3,472	665	6,831
2	55,646	57,904	2,258	73.4	3,126	6,198	3,645	910	5,815
3	53,732	56,499	2,767	73.4	4,216	7,380	3,558	1,964	5,762
4	52,216	54,488	2,273	73.4	3,476	6,645	3,788	1,546	4,892
5	54,577	57,760	3,183	72.7	4,218	7,206	4,407	2,890	5,892
6	59,567	62,540	2,973	73.4	4,470	6,214	3,534	2,697	6,352
7	66,383	69,442	3,059	78.5	3,141	5,934	2,947	1,134	5,073
8	71,958	72,717	759	81.9	2,460	3,900	1,811	-854	3,497
9	75,535	75,721	185	84.2	2,663	4,226	-26	-889	2,204
10	79,013	76,553	-2,460	86.1	1,000	2,344	-2,939	-3,195	-1,138
11	81,444	76,212	-5,233	85.6	-2,233	-2,207	-5,532	-5,495	-5,598
12	80,801	67,408	-13,392	84.5	-9,625	-13,378	-13,713	-14,140	-19,625
13	76,545	66,362	-10,182	82.7	-6,469	-8,900	-10,360	-12,004	-14,309
14	74,027	63,993	-10,034	82.3	-5,959	-7,643	-9,365	-12,210	-13,806
15	72,813	64,110	-8,703	84.0	-5,220	-7,368	-9,374	-10,912	-10,725
16	76,385	63,429	-12,956	82.2	-8,771	-11,731	-12,156	-15,140	-17,271
17	78,178	63,816	-14,362	79.4	-9,818	-13,291	-13,636	-16,333	-20,742
18	73,678	62,452	-11,225	74.6	-6,479	-8,405	-11,679	-12,472	-15,587
19	69,775	62,523	-7,252	72.4	-2,900	-1,800	-8,429	-8,115	-8,477
20	67,760	62,383	-5,377	70.7	-1,927	1,364	-6,575	-6,511	-3,811
21	66,648	63,641	-3,007	70.7	1,347	4,173	-3,713	-2,866	-93
22	63,764	61,567	-2,198	69.8	1,746	5,376	-2,091	-3,668	1,602
23	62,712	59,934	-2,778	69.2	634	4,913	-952	-5,362	1,617
24	61,915	59,104	-2,811	75.4	-616	4,119	-1,765	-4,761	269
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	1,631,898	1,539,641	-92,256	86.7	-24,147	1,883	-85,144	-123,122	-81,377

**Table A1.10**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: September 5, 2007**  
**Type of Results: Total for All Enrolled Customers**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	55,035	59,015	3,979	69.8	4,807	5,090	4,667	1,491	5,001
2	53,811	57,233	3,422	69.8	3,979	4,489	4,174	903	3,916
3	51,991	56,351	4,360	69.8	5,288	4,796	4,776	1,975	4,533
4	51,134	55,499	4,365	69.4	5,270	4,689	5,075	1,584	4,295
5	54,131	58,832	4,701	69.8	5,440	4,581	5,682	2,475	4,723
6	59,154	63,881	4,727	69.8	5,867	3,742	5,581	3,106	4,349
7	65,772	70,336	4,564	70.0	5,818	4,131	6,471	2,968	4,380
8	70,172	73,020	2,849	71.2	4,315	2,493	4,250	410	2,400
9	71,936	73,350	1,413	73.1	2,855	508	2,602	45	840
10	73,452	73,065	-387	74.1	1,372	-1,153	335	-2,014	-1,512
11	75,550	69,880	-5,670	76.8	-5,007	-6,157	-5,111	-7,429	-8,182
12	74,137	62,471	-11,666	74.3	-10,198	-11,846	-10,246	-12,876	-17,009
13	70,597	61,261	-9,336	73.1	-6,839	-8,675	-7,761	-9,794	-12,414
14	67,097	59,439	-7,657	73.1	-5,277	-6,599	-7,319	-8,608	-9,832
15	66,389	60,300	-6,089	73.9	-3,500	-5,027	-5,821	-6,997	-7,696
16	69,777	59,603	-10,174	71.9	-6,233	-8,221	-11,502	-12,344	-12,582
17	71,163	60,176	-10,986	70.3	-6,637	-9,279	-13,376	-12,582	-14,637
18	67,019	58,372	-8,647	67.3	-5,262	-6,805	-10,466	-10,835	-12,441
19	64,086	59,019	-5,067	66.1	-2,436	-4,974	-6,169	-7,380	-7,840
20	63,387	61,181	-2,206	65.1	159	-2,945	-3,081	-3,873	-3,341
21	62,760	60,389	-2,371	63.9	-351	-3,134	-2,988	-4,102	-4,011
22	60,296	58,511	-1,785	66.1	753	-1,929	-1,613	-4,438	-2,115
23	59,636	57,053	-2,583	66.8	398	-2,077	-1,517	-5,643	-2,033
24	58,548	55,842	-2,707	68.5	-759	-3,073	-2,323	-4,722	-3,394
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	1,537,032	1,484,079	-52,953	1.8	10th	30th	50th	70th	90th
					-6,179	-47,377	-45,678	-98,678	-84,603

**Table A1.11**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: Average Event Day**  
**Type of Results: Average per Enrolled Customer**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	255.5	264.4	8.9	70.5	18.0	12.7	8.9	5.2	-0.2
2	246.5	254.5	8.0	70.2	17.0	11.7	8.0	4.4	-0.9
3	239.0	246.0	7.0	69.6	16.9	11.0	7.0	2.9	-3.0
4	235.1	240.7	5.6	69.5	15.6	9.7	5.6	1.5	-4.4
5	246.4	252.8	6.4	69.3	17.3	10.9	6.4	2.0	-4.5
6	267.0	273.6	6.6	69.8	18.6	11.5	6.6	1.7	-5.5
7	293.4	300.8	7.4	72.6	18.1	11.8	7.4	3.0	-3.3
8	314.3	317.9	3.7	75.6	13.1	7.6	3.7	-0.2	-5.8
9	323.1	325.6	2.5	79.2	12.2	6.5	2.5	-1.4	-7.2
10	331.1	327.3	-3.8	81.8	6.6	0.5	-3.8	-8.0	-14.1
11	335.8	322.1	-13.6	83.1	-1.9	-8.8	-13.6	-18.4	-25.4
12	330.3	286.0	-44.3	82.6	-31.9	-39.2	-44.3	-49.3	-56.6
13	312.4	280.7	-31.7	82.5	-18.5	-26.3	-31.7	-37.1	-44.8
14	299.7	272.9	-26.8	82.2	-14.4	-21.7	-26.8	-31.8	-39.1
15	299.3	275.5	-23.8	81.9	-13.3	-19.5	-23.8	-28.1	-34.3
16	312.7	272.2	-40.5	80.4	-28.2	-35.4	-40.5	-45.5	-52.8
17	318.1	271.2	-47.0	78.8	-34.5	-41.9	-47.0	-52.1	-59.4
18	305.7	265.0	-40.7	75.9	-31.6	-36.9	-40.7	-44.4	-49.7
19	295.4	274.8	-20.6	72.9	-8.3	-15.6	-20.6	-25.7	-32.9
20	287.9	279.1	-8.8	71.7	-0.7	-5.5	-8.8	-12.2	-17.0
21	284.1	279.1	-5.0	71.1	3.9	-1.4	-5.0	-8.6	-13.9
22	277.9	277.0	-0.9	70.5	11.4	4.1	-0.9	-5.9	-13.1
23	275.4	277.0	1.6	70.0	17.4	8.0	1.6	-4.9	-14.3
24	267.7	271.1	3.5	71.0	21.3	10.8	3.5	-3.9	-14.4
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	6,954	6,708	-246	59.2	24	-136	-246	-357	-517

**Table A1.12**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 15, 2007**  
**Type of Results: Average per Enrolled Customer**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	260.6	277.1	16.5	70.4	31.4	31.0	14.9	14.2	7.3
2	249.5	267.4	17.9	70.4	32.0	30.7	18.7	17.3	9.1
3	242.6	257.0	14.3	69.2	28.3	26.8	16.2	16.0	6.7
4	239.7	254.2	14.5	68.5	30.3	24.7	16.0	14.4	8.7
5	249.9	266.8	16.9	67.9	30.5	26.8	18.5	18.5	14.1
6	271.3	291.7	20.4	68.8	38.4	29.1	18.1	27.6	16.4
7	298.5	314.2	15.7	72.0	33.8	26.6	16.2	19.1	7.3
8	320.1	337.3	17.3	74.6	42.5	30.1	13.8	18.7	8.2
9	327.0	345.4	18.4	77.5	44.0	33.6	14.8	19.6	7.6
10	334.2	347.0	12.9	80.5	39.9	29.8	8.9	11.3	1.8
11	338.5	340.0	1.4	83.4	27.6	14.0	-3.2	-1.4	-12.4
12	330.8	297.2	-33.7	85.2	-27.2	-27.3	-36.2	-36.9	-40.0
13	315.3	288.5	-26.8	84.0	-15.4	-20.1	-28.3	-29.6	-38.2
14	302.0	283.9	-18.2	82.7	-3.2	-9.9	-16.6	-23.0	-32.9
15	303.7	289.2	-14.5	82.7	-1.0	-3.8	-12.9	-17.8	-28.5
16	319.6	283.4	-36.2	80.1	-26.8	-34.6	-35.1	-45.7	-49.1
17	330.1	281.9	-48.2	78.5	-38.5	-51.9	-49.5	-54.3	-63.2
18	322.7	274.4	-48.3	75.2	-41.5	-52.7	-47.8	-58.9	-59.9
19	312.7	293.2	-19.5	72.0	-0.7	-14.5	-21.4	-27.1	-31.1
20	303.8	293.9	-9.9	71.4	19.5	-4.9	-12.6	-15.9	-22.3
21	299.2	296.8	-2.5	71.4	26.6	2.6	-6.0	-5.8	-13.7
22	296.6	299.2	2.7	70.4	34.3	8.2	0.5	-0.9	-4.7
23	294.7	302.8	8.1	69.8	48.0	17.4	7.0	3.6	-0.6
24	280.5	292.1	11.6	70.7	46.5	23.0	12.6	4.6	1.0
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	7,144	7,074	-69	59.7	10th	30th	50th	70th	90th
					399	135	-93	-132	-308

**Table A1.13**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 16, 2007**  
**Type of Results: Average per Enrolled Customer**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	263.4	276.7	13.2	69.8	26.6	8.6	20.7	8.9	0.4
2	251.8	265.3	13.4	69.8	26.9	9.0	19.8	9.9	-0.9
3	242.7	252.0	9.3	68.5	23.5	5.3	16.2	7.1	-3.2
4	239.0	247.8	8.8	69.8	24.9	6.2	14.8	5.9	-2.2
5	249.9	256.8	6.9	69.8	21.5	6.7	14.8	5.4	-4.2
6	269.9	273.8	3.9	69.2	16.3	5.7	8.4	2.9	-8.1
7	297.8	288.8	-8.9	72.0	5.4	-3.1	-2.1	-9.8	-22.2
8	320.0	322.6	2.6	76.2	18.4	7.2	7.3	1.5	-9.4
9	327.0	325.0	-2.0	80.1	12.7	3.1	-1.1	-5.3	-18.7
10	334.8	328.8	-6.0	84.2	8.4	1.0	-8.5	-10.6	-23.5
11	339.0	326.1	-12.9	82.3	-0.6	-5.5	-13.0	-18.8	-30.9
12	334.4	288.5	-45.9	81.3	-34.6	-35.5	-43.0	-54.0	-54.3
13	315.7	288.3	-27.4	82.3	-17.6	-17.6	-25.5	-35.8	-40.8
14	302.1	282.0	-20.1	81.8	-10.8	-14.2	-17.6	-21.2	-34.2
15	301.6	283.0	-18.6	81.1	-8.8	-13.8	-19.6	-18.7	-32.5
16	314.2	282.6	-31.6	81.4	-15.8	-26.7	-30.6	-35.7	-43.8
17	320.4	281.3	-39.2	81.1	-22.1	-36.0	-41.4	-43.9	-50.3
18	314.0	275.7	-38.3	78.7	-21.0	-38.7	-38.6	-41.6	-49.7
19	303.2	286.9	-16.4	74.3	0.4	-17.2	-17.7	-18.8	-32.5
20	293.2	285.7	-7.5	72.0	9.4	-5.6	-7.4	-11.9	-25.0
21	288.3	293.8	5.6	70.7	20.0	4.5	3.8	2.0	-14.8
22	283.1	295.4	12.3	70.7	27.3	8.3	8.3	9.9	-8.4
23	279.5	296.7	17.2	69.8	31.3	11.3	8.9	13.8	-7.9
24	269.4	287.0	17.6	70.4	26.2	13.5	13.5	14.1	-3.8
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	7,054	6,891	-164	65.6	168	-124	-129	-245	-521

**Table A1.14**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 17, 2007**  
**Type of Results: Average per Enrolled Customer**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	260.3	274.1	13.8	69.2	19.4	22.4	22.6	6.3	-0.8
2	250.9	263.3	12.4	69.2	15.5	21.1	19.3	3.9	-0.3
3	243.6	254.8	11.3	68.5	13.0	19.1	16.9	2.4	-3.2
4	240.6	245.9	5.3	67.9	6.9	14.9	11.2	-0.9	-8.2
5	252.3	255.9	3.6	68.1	4.2	13.0	10.7	-1.3	-9.2
6	271.1	277.2	6.1	69.4	5.4	19.9	11.4	2.3	-7.6
7	296.0	301.3	5.3	71.2	3.5	17.9	14.0	4.5	-14.5
8	314.7	316.6	1.9	74.4	0.1	14.3	11.2	1.9	-18.8
9	321.6	330.7	9.0	78.6	7.8	23.5	20.1	5.2	-12.1
10	326.9	329.8	2.9	81.8	3.3	17.3	13.4	-3.6	-18.1
11	326.3	324.7	-1.5	81.5	2.6	8.9	5.8	-7.0	-16.6
12	318.8	292.4	-26.5	81.1	-9.0	-23.8	-29.4	-31.4	-31.6
13	301.2	291.6	-9.6	80.3	6.0	-7.3	-10.4	-13.6	-24.1
14	291.6	278.7	-12.9	80.9	-3.1	-8.6	-12.8	-18.9	-29.9
15	294.1	281.0	-13.0	80.9	-6.1	-6.0	-12.1	-21.3	-31.0
16	304.2	279.4	-24.8	80.9	-12.2	-25.7	-26.9	-31.1	-37.4
17	309.9	276.7	-33.1	78.7	-20.2	-30.0	-37.5	-39.8	-40.7
18	301.4	273.1	-28.3	76.5	-16.2	-22.7	-27.9	-31.1	-35.8
19	293.6	290.6	-3.0	73.0	2.5	11.9	4.1	-5.3	-13.5
20	286.2	287.1	0.9	72.0	4.8	17.4	9.6	-0.1	-10.3
21	281.5	286.0	4.5	70.7	3.3	20.8	13.6	2.7	-7.3
22	278.2	292.2	14.1	70.7	8.2	30.9	22.6	12.2	-4.7
23	277.0	295.2	18.2	69.8	8.9	36.0	29.4	17.0	-2.8
24	268.7	283.6	15.0	69.8	4.3	30.6	25.8	13.5	-4.4
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	6,911	6,882	-29	51.3	10th	30th	50th	70th	90th
					53	216	105	-133	-383

**Table A1.15**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 21, 2007**  
**Type of Results: Average per Enrolled Customer**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	259.3	260.0	0.7	68.8	-4.2	4.2	8.0	2.1	-1.2
2	249.0	250.2	1.2	68.3	-3.6	3.7	9.9	1.9	-0.8
3	241.6	241.8	0.2	67.9	-1.7	1.4	8.0	-0.4	0.7
4	237.2	235.0	-2.2	66.7	-5.3	-1.7	5.5	-4.3	-2.3
5	248.5	247.6	-0.9	68.5	-2.6	-1.5	6.4	-2.3	0.9
6	269.4	271.6	2.2	69.8	0.4	4.2	12.9	1.9	6.7
7	300.0	307.4	7.3	71.4	3.0	7.3	21.6	6.2	9.8
8	318.7	323.5	4.8	74.6	1.0	4.3	16.2	6.8	4.9
9	327.3	328.7	1.4	78.2	-0.3	2.9	13.2	4.2	4.4
10	336.0	332.1	-3.9	82.7	-4.0	-2.5	4.5	-1.5	-3.5
11	336.1	326.9	-9.2	86.0	-3.7	-5.2	-3.7	-8.2	-13.6
12	332.4	290.6	-41.8	86.5	-27.2	-37.2	-39.3	-47.8	-52.6
13	314.5	285.1	-29.4	88.2	-24.5	-23.2	-25.9	-34.6	-37.1
14	301.5	278.8	-22.7	85.6	-16.9	-20.1	-20.0	-27.7	-32.6
15	300.9	281.7	-19.2	84.4	-10.4	-15.8	-18.1	-23.9	-28.6
16	311.2	277.7	-33.5	81.8	-20.1	-26.2	-36.2	-38.8	-52.2
17	310.3	275.7	-34.7	78.5	-14.6	-27.8	-39.6	-40.8	-52.1
18	297.6	265.7	-31.9	75.2	-15.0	-28.6	-40.6	-38.4	-48.3
19	288.9	271.0	-18.0	72.0	-5.9	-13.8	-22.1	-19.6	-25.6
20	283.4	278.3	-5.2	70.2	3.4	-0.1	-5.8	-5.0	-9.1
21	279.1	278.4	-0.7	70.2	6.6	1.0	-1.7	1.3	-4.7
22	273.7	266.2	-7.5	68.8	-4.5	-5.6	-4.6	-4.7	-9.8
23	274.3	260.1	-14.2	67.9	-15.9	-12.7	-9.7	-9.1	-18.1
24	269.0	253.7	-15.3	69.9	-13.9	-13.8	-12.6	-13.0	-18.4
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	6,960	6,687	-272	77.0	-180	-207	-174	-296	-383

**Table A1.16**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 29, 2007**  
**Type of Results: Average per Enrolled Customer**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	254.1	251.1	-2.9	69.8	3.6	-7.1	-2.6	2.9	-3.3
2	244.4	243.8	-0.6	69.2	6.8	-6.7	0.6	4.8	0.3
3	238.8	235.7	-3.1	68.8	5.1	-8.6	0.9	1.0	-2.0
4	235.8	235.3	-0.5	68.8	8.9	-5.3	3.7	2.9	1.9
5	247.5	246.7	-0.8	66.5	8.3	-6.7	3.6	1.6	2.0
6	268.6	261.2	-7.4	69.2	2.8	-13.1	-4.3	-10.4	-7.0
7	292.4	299.7	7.3	73.0	24.1	2.1	12.9	2.6	8.2
8	313.5	315.9	2.4	75.9	18.4	-0.3	7.8	-4.0	0.7
9	321.9	321.7	-0.2	79.3	18.6	0.3	6.6	-4.4	-3.7
10	327.1	324.6	-2.5	80.1	14.5	1.3	3.3	-7.6	-8.7
11	332.1	316.0	-16.1	80.7	0.3	-10.5	-10.7	-21.1	-24.7
12	324.7	274.6	-50.1	82.7	-31.5	-45.4	-47.7	-52.4	-59.1
13	307.0	274.3	-32.6	84.0	-17.5	-30.9	-32.3	-37.9	-43.0
14	293.4	266.3	-27.2	82.1	-13.0	-24.9	-25.5	-29.6	-38.7
15	295.0	265.7	-29.3	82.5	-16.5	-24.0	-26.7	-33.3	-40.3
16	311.2	264.0	-47.2	81.1	-36.4	-43.7	-49.1	-51.6	-62.7
17	314.9	263.4	-51.5	78.5	-42.8	-44.0	-55.2	-57.9	-68.0
18	300.5	255.7	-44.8	75.8	-36.4	-34.1	-45.7	-51.8	-59.5
19	291.2	266.8	-24.4	73.9	-12.0	-14.7	-23.7	-31.9	-36.9
20	284.3	275.6	-8.6	73.6	4.9	-1.4	-6.6	-13.9	-19.1
21	282.1	274.5	-7.6	72.6	3.3	-0.9	-2.0	-12.3	-17.0
22	278.0	280.8	2.9	72.0	15.7	10.0	4.8	0.2	-4.4
23	276.8	282.3	5.5	71.4	16.6	13.7	3.0	1.6	-1.3
24	266.7	273.7	7.0	70.2	14.7	15.9	6.9	5.5	0.4
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	6,902	6,569	-333	57.7	10th	30th	50th	70th	90th
					-39	-279	-278	-397	-486



**Table A1.17**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 30, 2007**  
**Type of Results: Average per Enrolled Customer**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	261.3	264.7	3.4	69.8	8.2	-0.6	2.0	14.4	-3.3
2	250.8	253.7	2.9	69.8	7.2	-0.7	0.0	12.5	-4.0
3	242.2	243.4	1.2	69.2	7.9	-1.8	-2.5	7.6	-5.9
4	238.3	237.2	-1.1	69.2	6.9	-3.4	-3.0	5.3	-6.6
5	249.7	250.4	0.8	68.1	9.1	-2.8	2.3	5.9	-4.8
6	269.9	270.8	0.9	68.3	15.1	-1.7	1.1	3.7	-4.3
7	294.9	300.5	5.5	72.0	18.5	1.3	3.4	12.9	-0.9
8	316.9	309.6	-7.3	74.3	3.6	-10.7	-9.8	-0.8	-16.1
9	325.2	320.1	-5.2	78.1	7.6	-6.6	-9.3	1.5	-16.0
10	333.0	320.3	-12.7	81.5	0.8	-12.8	-18.3	-8.0	-24.1
11	338.6	316.1	-22.5	82.6	-9.7	-19.9	-25.5	-24.8	-36.3
12	334.6	292.8	-41.8	82.6	-32.1	-33.1	-37.6	-47.5	-59.9
13	314.7	279.4	-35.3	84.5	-27.1	-28.9	-37.8	-40.3	-56.8
14	300.3	273.9	-26.5	87.0	-15.9	-28.7	-33.8	-28.3	-41.5
15	299.4	274.9	-24.6	82.3	-9.5	-26.1	-26.9	-29.6	-34.3
16	312.6	267.8	-44.8	79.5	-31.5	-38.5	-46.4	-51.1	-56.8
17	316.0	266.3	-49.7	81.3	-31.8	-38.0	-49.6	-63.0	-61.4
18	303.9	259.8	-44.1	78.2	-27.0	-36.2	-38.3	-49.0	-51.6
19	294.1	278.9	-15.3	75.2	3.5	-12.1	-14.2	-16.8	-23.0
20	285.6	279.4	-6.2	73.9	16.1	-6.2	-7.6	-4.5	-14.6
21	282.5	271.1	-11.4	73.0	10.5	-12.5	-13.6	-12.2	-20.7
22	276.6	274.0	-2.5	72.4	17.2	-10.0	-5.5	2.6	-9.5
23	272.7	278.7	6.0	72.2	21.4	-6.3	4.5	16.4	3.5
24	265.4	286.2	20.8	71.4	38.2	7.6	17.4	27.5	19.5
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	6,979	6,670	-309	67.7	7	-329	-349	-266	-529

**Table A1.18**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: August 31, 2007**  
**Type of Results: Average per Enrolled Customer**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	260.2	269.3	9.1	72.4	9.8	18.4	5.3	-2.5	9.5
2	252.6	253.4	0.8	71.8	1.5	11.6	0.4	-10.5	-0.2
3	245.9	244.9	-1.0	71.4	-1.2	8.0	0.0	-15.6	-6.1
4	242.1	239.4	-2.6	71.4	-2.4	6.6	-5.4	-17.3	-5.1
5	253.7	251.1	-2.6	71.8	-3.2	4.5	-6.3	-16.3	-5.4
6	273.6	273.8	0.2	70.7	-0.3	7.0	-1.9	-15.5	-3.6
7	294.2	295.9	1.7	73.4	-4.9	11.5	-8.8	-10.5	-5.3
8	314.5	310.7	-3.8	77.0	-10.5	6.2	-11.1	-14.3	-10.0
9	325.2	319.7	-5.5	83.4	-8.4	0.7	-8.4	-18.4	-14.2
10	333.4	321.3	-12.0	85.3	-12.4	-7.1	-11.9	-26.3	-20.6
11	337.4	322.6	-14.9	88.9	-10.8	-8.4	-13.1	-24.8	-27.7
12	331.8	281.0	-50.8	85.3	-33.9	-45.3	-50.6	-57.3	-66.4
13	311.4	271.2	-40.2	84.0	-23.9	-35.2	-42.7	-48.3	-53.7
14	300.6	263.4	-37.2	84.7	-24.8	-29.7	-36.0	-44.8	-52.0
15	301.8	270.2	-31.6	85.7	-24.9	-26.0	-31.1	-40.0	-48.3
16	314.4	267.4	-46.9	84.7	-30.1	-37.6	-48.6	-50.3	-62.3
17	320.8	263.3	-57.4	83.4	-38.6	-52.4	-56.3	-59.9	-73.0
18	307.6	262.7	-45.0	81.8	-23.1	-40.2	-49.6	-50.5	-57.5
19	300.9	264.7	-36.2	77.3	-20.0	-28.9	-40.4	-47.2	-47.3
20	292.3	281.8	-10.5	76.6	-0.3	-6.0	-21.5	-20.0	-21.3
21	288.8	279.0	-9.7	76.2	-1.3	-4.8	-14.8	-24.1	-23.4
22	282.7	270.0	-12.7	73.9	-12.2	-4.2	-21.7	-26.7	-23.5
23	278.8	275.1	-3.7	73.4	-6.0	9.8	-13.8	-16.5	-13.9
24	272.4	270.8	-1.7	72.7	0.5	10.4	-9.3	-15.4	-8.5
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	7,037	6,623	-414	104.4	10th	30th	50th	70th	90th
					-281	-231	-497	-673	-640

**Table A1.19**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: September 4, 2007**  
**Type of Results: Average per Enrolled Customer**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	243.9	253.6	9.7	73.9	14.5	28.4	14.9	2.9	29.3
2	238.8	248.5	9.7	73.4	13.4	26.6	15.6	3.9	25.0
3	230.6	242.5	11.9	73.4	18.1	31.7	15.3	8.4	24.7
4	224.1	233.9	9.8	73.4	14.9	28.5	16.3	6.6	21.0
5	234.2	247.9	13.7	72.7	18.1	30.9	18.9	12.4	25.3
6	255.7	268.4	12.8	73.4	19.2	26.7	15.2	11.6	27.3
7	284.9	298.0	13.1	78.5	13.5	25.5	12.6	4.9	21.8
8	308.8	312.1	3.3	81.9	10.6	16.7	7.8	-3.7	15.0
9	324.2	325.0	0.8	84.2	11.4	18.1	-0.1	-3.8	9.5
10	339.1	328.6	-10.6	86.1	4.3	10.1	-12.6	-13.7	-4.9
11	349.5	327.1	-22.5	85.6	-9.6	-9.5	-23.7	-23.6	-24.0
12	346.8	289.3	-57.5	84.5	-41.3	-57.4	-58.9	-60.7	-84.2
13	328.5	284.8	-43.7	82.7	-27.8	-38.2	-44.5	-51.5	-61.4
14	317.7	274.6	-43.1	82.3	-25.6	-32.8	-40.2	-52.4	-59.3
15	312.5	275.2	-37.4	84.0	-22.4	-31.6	-40.2	-46.8	-46.0
16	327.8	272.2	-55.6	82.2	-37.6	-50.3	-52.2	-65.0	-74.1
17	335.5	273.9	-61.6	79.4	-42.1	-57.0	-58.5	-70.1	-89.0
18	316.2	268.0	-48.2	74.6	-27.8	-36.1	-50.1	-53.5	-66.9
19	299.5	268.3	-31.1	72.4	-12.4	-7.7	-36.2	-34.8	-36.4
20	290.8	267.7	-23.1	70.7	-8.3	5.9	-28.2	-27.9	-16.4
21	286.0	273.1	-12.9	70.7	5.8	17.9	-15.9	-12.3	-0.4
22	273.7	264.2	-9.4	69.8	7.5	23.1	-9.0	-15.7	6.9
23	269.2	257.2	-11.9	69.2	2.7	21.1	-4.1	-23.0	6.9
24	265.7	253.7	-12.1	75.4	-2.6	17.7	-7.6	-20.4	1.2
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	7,004	6,608	-396	86.7	-104	8	-365	-528	-349

**Table A1.20**  
**Utility: San Diego Gas & Electric**  
**DR Program: Critical Peak Pricing (CPP)**  
**Load Impacts for: September 5, 2007**  
**Type of Results: Average per Enrolled Customer**

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	236.2	253.3	17.1	69.8	20.6	21.8	20.0	6.4	21.5
2	230.9	245.6	14.7	69.8	17.1	19.3	17.9	3.9	16.8
3	223.1	241.9	18.7	69.8	22.7	20.6	20.5	8.5	19.5
4	219.5	238.2	18.7	69.4	22.6	20.1	21.8	6.8	18.4
5	232.3	252.5	20.2	69.8	23.3	19.7	24.4	10.6	20.3
6	253.9	274.2	20.3	69.8	25.2	16.1	24.0	13.3	18.7
7	282.3	301.9	19.6	70.0	25.0	17.7	27.8	12.7	18.8
8	301.2	313.4	12.2	71.2	18.5	10.7	18.2	1.8	10.3
9	308.7	314.8	6.1	73.1	12.3	2.2	11.2	0.2	3.6
10	315.2	313.6	-1.7	74.1	5.9	-4.9	1.4	-8.6	-6.5
11	324.3	299.9	-24.3	76.8	-21.5	-26.4	-21.9	-31.9	-35.1
12	318.2	268.1	-50.1	74.3	-43.8	-50.8	-44.0	-55.3	-73.0
13	303.0	262.9	-40.1	73.1	-29.4	-37.2	-33.3	-42.0	-53.3
14	288.0	255.1	-32.9	73.1	-22.6	-28.3	-31.4	-36.9	-42.2
15	284.9	258.8	-26.1	73.9	-15.0	-21.6	-25.0	-30.0	-33.0
16	299.5	255.8	-43.7	71.9	-26.8	-35.3	-49.4	-53.0	-54.0
17	305.4	258.3	-47.2	70.3	-28.5	-39.8	-57.4	-54.0	-62.8
18	287.6	250.5	-37.1	67.3	-22.6	-29.2	-44.9	-46.5	-53.4
19	275.0	253.3	-21.7	66.1	-10.5	-21.3	-26.5	-31.7	-33.6
20	272.0	262.6	-9.5	65.1	0.7	-12.6	-13.2	-16.6	-14.3
21	269.4	259.2	-10.2	63.9	-1.5	-13.5	-12.8	-17.6	-17.2
22	258.8	251.1	-7.7	66.1	3.2	-8.3	-6.9	-19.0	-9.1
23	255.9	244.9	-11.1	66.8	1.7	-8.9	-6.5	-24.2	-8.7
24	251.3	239.7	-11.6	68.5	-3.3	-13.2	-10.0	-20.3	-14.6
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	6,597	6,369	-227	1.8	10th	30th	50th	70th	90th
					-27	-203	-196	-424	-363

## 2. Voluntary CPP Goodness of Fit Statistics

Variable names:

Voluntary CPP Regression Variables	
Variable Name	Description
cdd_ball	A weighted average of the cooling degree 65 for the event days and 3 days prior to the event day
evtd1	indicator variable 1 if the date is equal to the first CPP event day 0 otherwise
evtd2	indicator variable 1 if the date is equal to the second CPP event day 0 otherwise
evtd3-evtd9	indicator variables for the 3rd through 9th CPP event days
dt2	indicator variable 1 if the day is a Tuesday 0 otherwise
dt3	indicator variable 1 if the day is a Wednesday 0 otherwise
dt4	indicator variable 1 if the day is a Thursday 0 otherwise
dt5	indicator variable 1 if the day is a Friday 0 otherwise
m6	indicator variable = 1 if the month is June zero otherwise
m7	indicator variable = 1 if the month is July zero otherwise
m8	indicator variable = 1 if the month is August zero otherwise
m9	indicator variable = 1 if the month is September zero otherwise
_cons	intercept
Load1-Load24	Total load for the hour ending.

## SDG&E CPP Models

-> prais load1 cdd\_bldall evtd1-evtd9 dt2-dt5 m6-m9,nolog

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	1.1334e+09	18	62964035.8	F( 18, 83) =	22.98
Residual	227378584	83	2739501.01	Prob > F =	0.0000
				R-squared =	0.8329
				Adj R-squared =	0.7967
Total	1.3607e+09	101	13472586.4	Root MSE =	1655.1

load1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	369.3691	118.4901	3.12	0.003	133.6971 605.041
evtd1	3790.83	1742.605	2.18	0.032	324.8582 7256.801
evtd2	3084.151	1855.156	1.66	0.100	-605.6793 6773.982
evtd3	3212.58	1734.499	1.85	0.068	-237.2698 6662.429
evtd4	162.5799	1634.324	0.10	0.921	-3088.026 3413.186
evtd5	-687.1822	1741.563	-0.39	0.694	-4151.082 2776.717
evtd6	791.7257	1887.986	0.42	0.676	-2963.403 4546.855
evtd7	2113.9	1963.066	1.08	0.285	-1790.56 6018.359
evtd8	2256.278	2316.99	0.97	0.333	-2352.122 6864.678
evtd9	3979.288	1848.667	2.15	0.034	302.3635 7656.212
dt2	5140.427	471.1779	10.91	0.000	4203.274 6077.581
dt3	5397.637	538.9179	10.02	0.000	4325.751 6469.523
dt4	6604.163	532.207	12.41	0.000	5545.624 7662.701
dt5	5588.068	460.1097	12.15	0.000	4672.929 6503.208
m6	2260.97	771.3979	2.93	0.004	726.6903 3795.249
m7	1816.042	978.4339	1.86	0.067	-130.0233 3762.108
m8	3856.861	1176.622	3.28	0.002	1516.606 6197.116
m9	-439.0444	873.806	-0.50	0.617	-2177.009 1298.921
_cons	46519.14	666.5078	69.80	0.000	45193.49 47844.8
rho	.3600198				

Durbin-Watson statistic (original) 1.267904

Durbin-Watson statistic (transformed) 1.978602

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	909989733	18	50554985.2	F( 18, 83) =	18.83
Residual	222799148	83	2684327.08	Prob > F =	0.0000
				R-squared =	0.8033
				Adj R-squared =	0.7607
Total	1.1328e+09	101	11215731.5	Root MSE =	1638.4

load2	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	384.6925	113.9575	3.38	0.001	158.0356 611.3493
evtd1	4120.889	1729.408	2.38	0.019	681.1652 7560.613
evtd2	3130.688	1823.339	1.72	0.090	-495.8606 6757.236
evtd3	2882.736	1721.529	1.67	0.098	-541.3158 6306.788

evtd4	280.3706	1642.663	0.17	0.865	-2986.82	3547.562
evtd5	-136.901	1726.269	-0.08	0.937	-3570.381	3296.579
evtd6	684.2904	1845.953	0.37	0.712	-2987.235	4355.816
evtd7	185.2197	1912.332	0.10	0.923	-3618.332	3988.772
evtd8	2257.895	2259.712	1.00	0.321	-2236.582	6752.371
evtd9	3422.218	1831.648	1.87	0.065	-220.8572	7065.293
dt2	4383.423	474.303	9.24	0.000	3440.053	5326.792
dt3	4549.283	536.2746	8.48	0.000	3482.654	5615.911
dt4	5498.28	529.5862	10.38	0.000	4444.954	6551.605
dt5	5127.167	463.5947	11.06	0.000	4205.096	6049.239
m6	1958.059	723.4227	2.71	0.008	519.2009	3396.918
m7	1517.218	922.6481	1.64	0.104	-317.8915	3352.328
m8	3001.955	1115.691	2.69	0.009	782.891	5221.019
m9	-480.3909	817.1208	-0.59	0.558	-2105.611	1144.83
_cons	45825.99	634.2326	72.25	0.000	44564.52	47087.45

rho | .3166087

Durbin-Watson statistic (original) 1.346327  
Durbin-Watson statistic (transformed) 1.949571

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	724913248	18	40272958.2	F( 18, 83) =	14.67
Residual	227844684	83	2745116.68	Prob > F =	0.0000
				R-squared =	0.7609
				Adj R-squared =	0.7090
Total	952757932	101	9433246.85	Root MSE =	1656.8

load3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	392.6942	113.6806	3.45	0.001	166.5882 618.8003
evtd1	3298.156	1750.683	1.88	0.063	-183.8824 6780.195
evtd2	2168.181	1837.549	1.18	0.241	-1486.631 5822.992
evtd3	2621.329	1742.82	1.50	0.136	-845.0695 6087.728
evtd4	56.70043	1672.377	0.03	0.973	-3269.59 3382.991
evtd5	-718.6885	1746.77	-0.41	0.682	-4192.944 2755.567
evtd6	282.917	1856.583	0.15	0.879	-3409.752 3975.586
evtd7	-241.2714	1920.394	-0.13	0.900	-4060.857 3578.314
evtd8	2766.833	2269.339	1.22	0.226	-1746.791 7280.457
evtd9	4360.109	1852.894	2.35	0.021	674.7785 8045.44
dt2	3586.368	483.3944	7.42	0.000	2624.916 4547.82
dt3	3902.818	543.4196	7.18	0.000	2821.978 4983.658
dt4	4200.539	536.6402	7.83	0.000	3133.183 5267.895
dt5	4288.488	472.7121	9.07	0.000	3348.282 5228.693
m6	1403.173	713.9188	1.97	0.053	-16.78298 2823.129
m7	1158.806	912.8198	1.27	0.208	-656.7557 2974.368
m8	2626.556	1106.296	2.37	0.020	426.1764 4826.935
m9	-1276.779	805.573	-1.58	0.117	-2879.031 325.4731
_cons	45384.41	630.5209	71.98	0.000	44130.33 46638.49

rho | .2964251

Durbin-Watson statistic (original) 1.372684  
Durbin-Watson statistic (transformed) 1.939817

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
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Model	686200226	18	38122234.8	F( 18, 83) = 13.96
Residual	226693627	83	2731248.52	Prob > F = 0.0000
Total	912893852	101	9038552.99	R-squared = 0.7517
				Adj R-squared = 0.6978
				Root MSE = 1652.6

load4	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
cdd_bldall	352.899	115.4031	3.06	0.003	123.3669	582.431
evtd1	3337.977	1743.903	1.91	0.059	-130.5765	6806.53
evtd2	2043.063	1841.024	1.11	0.270	-1618.66	5704.787
evtd3	1228.726	1735.929	0.71	0.481	-2223.966	4681.418
evtd4	-517.9357	1653.642	-0.31	0.755	-3806.964	2771.092
evtd5	-127.2251	1740.979	-0.07	0.942	-3589.962	3335.512
evtd6	-252.3149	1865.04	-0.14	0.893	-3961.804	3457.174
evtd7	-617.4012	1933.008	-0.32	0.750	-4462.076	3227.274
evtd8	2272.599	2283.983	1.00	0.323	-2270.151	6815.35
evtd9	4364.523	1847.388	2.36	0.020	690.1429	8038.903
dt2	3190.046	477.3473	6.68	0.000	2240.621	4139.471
dt3	3922.101	540.5949	7.26	0.000	2846.88	4997.323
dt4	4042.342	533.8535	7.57	0.000	2980.528	5104.155
dt5	4209.982	466.5067	9.02	0.000	3282.119	5137.845
m6	1470.934	734.9817	2.00	0.049	9.085015	2932.783
m7	1302.972	936.6987	1.39	0.168	-560.084	3166.028
m8	3107.382	1131.897	2.75	0.007	856.0844	5358.68
m9	-1005.068	830.4496	-1.21	0.230	-2656.799	646.6628
_cons	44590.07	643.031	69.34	0.000	43311.11	45869.03
rho	.3224803					

Durbin-Watson statistic (original) 1.344906  
Durbin-Watson statistic (transformed) 1.978714

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs = 102
Model	713670545	18	39648363.6	F( 18, 83) = 14.39
Residual	228706225	83	2755496.69	Prob > F = 0.0000
Total	942376771	101	9330463.07	R-squared = 0.7573
				Adj R-squared = 0.7047
				Root MSE = 1660

load5	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
cdd_bldall	346.8352	116.0839	2.99	0.004	115.949	577.7215
evtd1	3892.019	1751.416	2.22	0.029	408.5226	7375.515
evtd2	1608.858	1849.856	0.87	0.387	-2070.431	5288.147
evtd3	841.5905	1743.397	0.48	0.631	-2625.956	4309.137
evtd4	-198.9703	1659.721	-0.12	0.905	-3500.089	3102.149
evtd5	-185.6614	1748.573	-0.11	0.916	-3663.503	3292.18
evtd6	177.6734	1874.439	0.09	0.925	-3550.51	3905.857
evtd7	-603.0055	1943.091	-0.31	0.757	-4467.736	3261.725
evtd8	3183.425	2295.822	1.39	0.169	-1382.873	7749.723
evtd9	4701.005	1855.493	2.53	0.013	1010.504	8391.507
dt2	2878.604	479.0574	6.01	0.000	1925.778	3831.43
dt3	3969.972	542.8569	7.31	0.000	2890.252	5049.693
dt4	4111.218	536.0877	7.67	0.000	3044.961	5177.474
dt5	4349.34	468.1547	9.29	0.000	3418.2	5280.481
m6	1408.77	740.2207	1.90	0.060	-63.4988	2881.04
m7	1536.267	943.116	1.63	0.107	-339.553	3412.087



m8	2913.476	1139.353	2.56	0.012	647.3478	5179.603
m9	-1147.453	836.475	-1.37	0.174	-2811.168	516.262
_cons	47374.5	647.12	73.21	0.000	46087.4	48661.59

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rho | .3246646  
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Durbin-Watson statistic (original) 1.376376  
Durbin-Watson statistic (transformed) 1.957217

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	686707821	18	38150434.5	F( 18, 83) =	12.98
Residual	243885055	83	2938374.16	Prob > F =	0.0000
				R-squared =	0.7379
				Adj R-squared =	0.6811
Total	930592876	101	9213790.85	Root MSE =	1714.2

load6	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	356.3331	127.1811	2.80	0.006	103.375 609.2912
evtd1	4693.301	1797.22	2.61	0.011	1118.703 8267.899
evtd2	907.3587	1937.146	0.47	0.641	-2945.548 4760.265
evtd3	1416.941	1788.829	0.79	0.431	-2140.967 4974.849
evtd4	522.5258	1657.361	0.32	0.753	-2773.899 3818.95
evtd5	-1717.167	1800.332	-0.95	0.343	-5297.955 1863.62
evtd6	202.8321	1988.566	0.10	0.919	-3752.345 4158.009
evtd7	47.44492	2078.978	0.02	0.982	-4087.559 4182.449
evtd8	2972.87	2444.621	1.22	0.227	-1889.382 7835.123
evtd9	4726.671	1911.379	2.47	0.015	925.0141 8528.328
dt2	1922.994	477.4743	4.03	0.000	973.3168 2872.671
dt3	3105.4	553.3711	5.61	0.000	2004.767 4206.033
dt4	3035.937	546.5082	5.56	0.000	1948.955 4122.92
dt5	3126.362	465.8249	6.71	0.000	2199.855 4052.869
m6	1523.7	859.0219	1.77	0.080	-184.8598 3232.26
m7	1706.89	1081.87	1.58	0.118	-444.9054 3858.686
m8	3370.179	1289.876	2.61	0.011	804.6661 5935.691
m9	-657.2696	978.4428	-0.67	0.504	-2603.353 1288.814
_cons	52634.33	730.6577	72.04	0.000	51181.08 54087.58

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rho | .4158185  
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Durbin-Watson statistic (original) 1.196408  
Durbin-Watson statistic (transformed) 1.946299

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	876047838	18	48669324.3	F( 18, 83) =	12.87
Residual	313877313	83	3781654.37	Prob > F =	0.0000
				R-squared =	0.7362
				Adj R-squared =	0.6790
Total	1.1899e+09	101	11781437.1	Root MSE =	1944.6

load7	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	314.1101	153.7562	2.04	0.044	8.295231 619.925
evtd1	3609.944	2014.334	1.79	0.077	-396.4848 7616.374
evtd2	-2082.37	2221.012	-0.94	0.351	-6499.873 2335.133

evtd3	1240.41	2005.667	0.62	0.538	-2748.78	5229.601
evtd4	1710.781	1797.201	0.95	0.344	-1863.78	5285.341
evtd5	1704.658	2033.674	0.84	0.404	-2340.237	5749.554
evtd6	1287.183	2336.019	0.55	0.583	-3359.065	5933.431
evtd7	391.4598	2474.58	0.16	0.875	-4530.38	5313.299
evtd8	3059.022	2865.262	1.07	0.289	-2639.868	8757.912
evtd9	4563.76	2156.48	2.12	0.037	274.6089	8852.911
dt2	2845.34	518.3782	5.49	0.000	1814.307	3876.373
dt3	3405.736	613.5741	5.55	0.000	2185.361	4626.11
dt4	3459.442	606.0719	5.71	0.000	2253.989	4664.895
dt5	2435.623	505.3671	4.82	0.000	1430.468	3440.778
m6	2080.955	1134.991	1.83	0.070	-176.4964	4338.407
m7	2189.451	1411.883	1.55	0.125	-618.7268	4997.629
m8	4675.75	1646.827	2.84	0.006	1400.276	7951.223
m9	979.2276	1319.951	0.74	0.460	-1646.103	3604.558
_cons	57311.47	949.4469	60.36	0.000	55423.06	59199.88

rho | .5253636

Durbin-Watson statistic (original) 1.010659  
Durbin-Watson statistic (transformed) 1.848284

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	1.0268e+09	18	57042372.1	F( 18, 83) =	14.27
Residual	331828429	83	3997932.88	Prob > F =	0.0000
				R-squared =	0.7558
				Adj R-squared =	0.7028
Total	1.3586e+09	101	13451397.3	Root MSE =	1999.5

load8	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	586.799	155.5287	3.77	0.000	277.4586 896.1394
evtd1	3968.37	2079.271	1.91	0.060	-167.2163 8103.957
evtd2	614.4595	2279.119	0.27	0.788	-3918.617 5147.535
evtd3	434.0806	2070.005	0.21	0.834	-3683.076 4551.237
evtd4	1116.379	1871.693	0.60	0.552	-2606.342 4839.101
evtd5	566.9021	2093.716	0.27	0.787	-3597.415 4731.219
evtd6	-1691.85	2378.83	-0.71	0.479	-6423.248 3039.547
evtd7	-879.5183	2510.076	-0.35	0.727	-5871.959 4112.923
evtd8	758.8531	2921.894	0.26	0.796	-5052.677 6570.383
evtd9	2848.807	2221.406	1.28	0.203	-1569.48 7267.094
dt2	2785.053	539.5604	5.16	0.000	1711.889 3858.217
dt3	3969.982	635.3406	6.25	0.000	2706.316 5233.649
dt4	4069.843	627.5364	6.49	0.000	2821.699 5317.988
dt5	2276.01	526.0349	4.33	0.000	1229.748 3322.272
m6	2032.928	1117.859	1.82	0.073	-190.4479 4256.305
m7	1211.494	1394.72	0.87	0.388	-1562.549 3985.536
m8	3194.946	1637.641	1.95	0.054	-62.25625 6452.149
m9	-270.0087	1290.345	-0.21	0.835	-2836.453 2296.436
_cons	60383.22	937.211	64.43	0.000	58519.15 62247.3

rho | .4953577

Durbin-Watson statistic (original) 1.045988  
Durbin-Watson statistic (transformed) 1.731974

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	1.0590e+09	18	58833110.8	F( 18, 83) =	13.01
Residual	375209855	83	4520600.66	Prob > F =	0.0000
				R-squared =	0.7384
				Adj R-squared =	0.6816
Total	1.4342e+09	101	14200057.9	Root MSE =	2126.2

load9	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
cdd_bldall	827.4266	161.4573	5.12	0.000	506.2945	1148.559
evtd1	4229.138	2221.293	1.90	0.060	-188.925	8647.201
evtd2	-464.3153	2413.97	-0.19	0.848	-5265.605	4336.975
evtd3	2106.537	2211.068	0.95	0.343	-2291.188	6504.262
evtd4	323.8379	2024.79	0.16	0.873	-3703.389	4351.064
evtd5	-39.4232	2229.994	-0.02	0.986	-4474.791	4395.945
evtd6	-1205.072	2496.18	-0.48	0.631	-6169.875	3759.73
evtd7	-1276.592	2620.682	-0.49	0.627	-6489.023	3935.839
evtd8	185.1347	3068.962	0.06	0.952	-5918.907	6289.176
evtd9	1413.34	2367.146	0.60	0.552	-3294.818	6121.497
dt2	2553.631	583.3918	4.38	0.000	1393.288	3713.974
dt3	3499.223	681.5575	5.13	0.000	2143.633	4854.814
dt4	3465.805	673.1392	5.15	0.000	2126.958	4804.652
dt5	1861.192	568.9131	3.27	0.002	729.6463	2992.737
m6	2317.486	1121.753	2.07	0.042	86.36546	4548.607
m7	1373.808	1406.176	0.98	0.331	-1423.021	4170.636
m8	2157.499	1665.057	1.30	0.199	-1154.233	5469.23
m9	-875.8845	1284.599	-0.68	0.497	-3430.9	1679.131
_cons	61331.45	946.2904	64.81	0.000	59449.32	63213.59

rho | .4538552

Durbin-Watson statistic (original) 1.121938  
Durbin-Watson statistic (transformed) 1.814319

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	1.1686e+09	18	64921003.6	F( 18, 83) =	11.80
Residual	456483120	83	5499796.62	Prob > F =	0.0000
				R-squared =	0.7191
				Adj R-squared =	0.6582
Total	1.6251e+09	101	16089714.7	Root MSE =	2345.2

load10	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
cdd_bldall	1094.784	165.2651	6.62	0.000	766.0781	1423.49
evtd1	2956.677	2472.737	1.20	0.235	-1961.497	7874.852
evtd2	-1396.372	2618.438	-0.53	0.595	-6604.339	3811.595
evtd3	669.6222	2461.345	0.27	0.786	-4225.894	5565.138
evtd4	-901.3659	2335.461	-0.39	0.701	-5546.504	3743.772
evtd5	-581.3743	2469.465	-0.24	0.814	-5493.04	4330.292
evtd6	-2963.002	2656.745	-1.12	0.268	-8247.161	2321.156
evtd7	-2807.132	2756.663	-1.02	0.311	-8290.022	2675.759
evtd8	-2459.521	3256.321	-0.76	0.452	-8936.212	4017.171
evtd9	-387.2096	2620.793	-0.15	0.883	-5599.861	4825.441
dt2	2584.676	673.7987	3.84	0.000	1244.517	3924.834
dt3	3473.557	765.9124	4.54	0.000	1950.188	4996.925
dt4	3737.775	756.365	4.94	0.000	2233.395	5242.154
dt5	1784.97	658.2952	2.71	0.008	475.6475	3094.293
m6	2239.656	1060.75	2.11	0.038	129.8665	4349.445

m7	669.1249	1349.537	0.50	0.621	-2015.05	3353.3
m8	317.9942	1628.027	0.20	0.846	-2920.086	3556.074
m9	-1779.471	1199.532	-1.48	0.142	-4165.291	606.3496
_cons	61727.94	923.6756	66.83	0.000	59890.79	63565.09
rho	.3361742					

Durbin-Watson statistic (original) 1.368234  
Durbin-Watson statistic (transformed) 1.875790

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	1.1582e+09	18	64342450.9	F( 18, 83) =	11.81
Residual	452072829	83	5446660.59	Prob > F =	0.0000
Total	1.6102e+09	101	15942940.1	R-squared =	0.7193
				Adj R-squared =	0.6584
				Root MSE =	2333.8

load11	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
cdd_bldall	1193.609	154.5157	7.72	0.000	886.2835	1500.934
evtd1	330.3586	2471.6	0.13	0.894	-4585.555	5246.273
evtd2	-2994.523	2565.308	-1.17	0.246	-8096.817	2107.771
evtd3	-352.9853	2461.024	-0.14	0.886	-5247.862	4541.892
evtd4	-2154.424	2394.21	-0.90	0.371	-6916.412	2607.564
evtd5	-3745.331	2464.26	-1.52	0.132	-8646.645	1155.984
evtd6	-5241.439	2581.072	-2.03	0.045	-10375.09	-107.7912
evtd7	-3469.159	2660.468	-1.30	0.196	-8760.723	1822.405
evtd8	-5232.727	3140.063	-1.67	0.099	-11478.19	1012.731
evtd9	-5670.045	2611.63	-2.17	0.033	-10864.47	-475.6185
dt2	1792.19	694.7935	2.58	0.012	410.2736	3174.106
dt3	2855.583	768.642	3.72	0.000	1326.784	4384.381
dt4	3287.881	759.057	4.33	0.000	1778.147	4797.615
dt5	828.6407	680.3928	1.22	0.227	-524.6332	2181.915
m6	2150.395	946.0095	2.27	0.026	268.8202	4031.97
m7	612.7303	1217.211	0.50	0.616	-1808.253	3033.714
m8	-322.7654	1482.566	-0.22	0.828	-3271.53	2625.999
m9	-1384.065	1065.453	-1.30	0.198	-3503.209	735.0786
_cons	62893.63	852.7405	73.75	0.000	61197.57	64589.7
rho	.2442641					

Durbin-Watson statistic (original) 1.534257  
Durbin-Watson statistic (transformed) 1.959178

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	1.1629e+09	18	64604931.7	F( 18, 83) =	9.90
Residual	541469742	83	6523731.83	Prob > F =	0.0000
Total	1.7044e+09	101	16874836.8	R-squared =	0.6823
				Adj R-squared =	0.6134
				Root MSE =	2554.2

load12	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
cdd_bldall	1152.432	169.4451	6.80	0.000	815.4124	1489.451
evtd1	-7743.805	2704.653	-2.86	0.005	-13123.25	-2364.359

evtd2	-10700.41	2808.913	-3.81	0.000	-16287.22	-5113.59
evtd3	-6164.241	2693.043	-2.29	0.025	-11520.6	-807.8864
evtd4	-9738.163	2618.01	-3.72	0.000	-14945.28	-4531.046
evtd5	-11680	2696.7	-4.33	0.000	-17043.63	-6316.368
evtd6	-9733.881	2826.732	-3.44	0.001	-15356.14	-4111.625
evtd7	-11847.15	2914.205	-4.07	0.000	-17643.39	-6050.918
evtd8	-13392.18	3439.94	-3.89	0.000	-20234.08	-6550.274
evtd9	-11666.32	2858.133	-4.08	0.000	-17351.03	-5981.61
dt2	1713.927	759.5311	2.26	0.027	203.25	3224.604
dt3	1908.945	841.0533	2.27	0.026	236.1237	3581.766
dt4	2796.823	830.5646	3.37	0.001	1144.863	4448.782
dt5	-34.52657	743.7267	-0.05	0.963	-1513.769	1444.716
m6	3035.458	1038.8	2.92	0.004	969.3273	5101.589
m7	1987.944	1336.143	1.49	0.141	-669.5906	4645.479
m8	-33.57607	1627.021	-0.02	0.984	-3269.656	3202.504
m9	-1098.777	1170.055	-0.94	0.350	-3425.969	1228.416
_cons	62727.17	935.2665	67.07	0.000	60866.97	64587.38

rho | .2471846

Durbin-Watson statistic (original) 1.569388

Durbin-Watson statistic (transformed) 1.953602

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	922831861	18	51268436.7	F( 18, 83) =	9.46
Residual	449630186	83	5417231.15	Prob > F =	0.0000
				R-squared =	0.6724
				Adj R-squared =	0.6013
Total	1.3725e+09	101	13588733.1	Root MSE =	2327.5

load13	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	1039.855	161.9062	6.42	0.000	717.83 1361.88
evtd1	-6173.248	2456.771	-2.51	0.014	-11059.67 -1286.83
evtd2	-6374.302	2590.305	-2.46	0.016	-11526.31 -1222.29
evtd3	-2226.325	2445.576	-0.91	0.365	-7090.477 2637.827
evtd4	-6839.492	2333.428	-2.93	0.004	-11480.59 -2198.397
evtd5	-7604.951	2452.32	-3.10	0.003	-12482.52 -2727.384
evtd6	-8217.595	2622.478	-3.13	0.002	-13433.6 -3001.592
evtd7	-9358.742	2716.817	-3.44	0.001	-14762.38 -3955.102
evtd8	-10182.19	3210.328	-3.17	0.002	-16567.4 -3796.973
evtd9	-9335.941	2602.027	-3.59	0.001	-14511.27 -4160.614
dt2	1992.243	673.7494	2.96	0.004	652.182 3332.303
dt3	2495.918	761.8163	3.28	0.002	980.6957 4011.14
dt4	2902.805	752.315	3.86	0.000	1406.481 4399.129
dt5	100.1811	658.5356	0.15	0.879	-1209.62 1409.982
m6	2487.934	1027.905	2.42	0.018	443.4716 4532.397
m7	1674.855	1310.955	1.28	0.205	-932.5827 4282.292
m8	-499.1806	1585.211	-0.31	0.754	-3652.101 2653.74
m9	-826.9569	1161.051	-0.71	0.478	-3136.241 1482.327
_cons	59867.12	901.1215	66.44	0.000	58074.83 61659.41

rho | .3167785

Durbin-Watson statistic (original) 1.429561

Durbin-Watson statistic (transformed) 1.878411

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	820932196	18	45607344.2	F( 18, 83) =	9.01
Residual	420069898	83	5061083.11	Prob > F	= 0.0000
				R-squared	= 0.6615
				Adj R-squared	= 0.5881
Total	1.2410e+09	101	12287149.4	Root MSE	= 2249.7

load14	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	1075.635	163.9339	6.56	0.000	749.5769 1401.693
evtd1	-4179.512	2364.04	-1.77	0.081	-8881.493 522.4687
evtd2	-4681.04	2532.136	-1.85	0.068	-9717.356 355.2764
evtd3	-3015.943	2352.986	-1.28	0.203	-7695.937 1664.05
evtd4	-5297.224	2199.01	-2.41	0.018	-9670.966 -923.4823
evtd5	-6332.745	2365.044	-2.68	0.009	-11036.72 -1628.768
evtd6	-6163.239	2587.15	-2.38	0.019	-11308.98 -1017.502
evtd7	-8673.588	2696.963	-3.22	0.002	-14037.74 -3309.437
evtd8	-10034.49	3178.409	-3.16	0.002	-16356.22 -3712.764
evtd9	-7657.249	2510.848	-3.05	0.003	-12651.22 -2663.273
dt2	2426.937	633.6574	3.83	0.000	1166.618 3687.257
dt3	2234.372	729.6194	3.06	0.003	783.1888 3685.556
dt4	2544.514	720.5492	3.53	0.001	1111.371 3977.658
dt5	578.927	618.4651	0.94	0.352	-651.1752 1809.029
m6	2368.944	1085.965	2.18	0.032	209.004 4528.885
m7	416.7338	1372.625	0.30	0.762	-2313.362 3146.83
m8	-796.8327	1644.078	-0.48	0.629	-4066.838 2473.173
m9	-1111.836	1233.09	-0.90	0.370	-3564.402 1340.73
_cons	56905.96	930.6669	61.15	0.000	55054.9 58757.02
rho	.3873655				

Durbin-Watson statistic (original) 1.300364  
Durbin-Watson statistic (transformed) 1.811081

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	704175273	18	39120848.5	F( 18, 83) =	9.21
Residual	352468685	83	4246610.66	Prob > F	= 0.0000
				R-squared	= 0.6664
				Adj R-squared	= 0.5941
Total	1.0566e+09	101	10461821.4	Root MSE	= 2060.7

load15	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	1032.499	150.7706	6.85	0.000	732.6226 1332.376
evtd1	-3329.287	2164.45	-1.54	0.128	-7634.291 975.7174
evtd2	-4326.859	2321.597	-1.86	0.066	-8944.422 290.7035
evtd3	-3034.466	2154.326	-1.41	0.163	-7319.334 1250.401
evtd4	-4476.365	2009.517	-2.23	0.029	-8473.215 -479.5158
evtd5	-6834.668	2165.947	-3.16	0.002	-11142.65 -2526.687
evtd6	-5720.825	2374.379	-2.41	0.018	-10443.37 -998.2796
evtd7	-7361.594	2476.699	-2.97	0.004	-12287.65 -2435.539
evtd8	-8702.858	2917.554	-2.98	0.004	-14505.75 -2899.961
evtd9	-6089.106	2299.517	-2.65	0.010	-10662.75 -1515.46
dt2	1640.994	579.0117	2.83	0.006	489.3626 2792.625
dt3	1753.674	667.6843	2.63	0.010	425.677 3081.671
dt4	1879.003	659.3879	2.85	0.006	567.5074 3190.5
dt5	592.1474	565.0711	1.05	0.298	-531.7563 1716.051

m6	2914.27	1002.946	2.91	0.005	919.4512	4909.09
m7	409.0425	1266.676	0.32	0.748	-2110.325	2928.41
m8	75.48204	1515.693	0.05	0.960	-2939.17	3090.134
m9	-743.9189	1139.542	-0.65	0.516	-3010.422	1522.584
_cons	56765.82	858.0126	66.16	0.000	55059.27	58472.37

rho | .3936601

Durbin-Watson statistic (original) 1.269920

Durbin-Watson statistic (transformed) 1.857845

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	913391331	18	50743962.9	F( 18, 83) =	10.76
Residual	391561064	83	4717603.18	Prob > F =	0.0000
Total	1.3050e+09	101	12920320.7	R-squared =	0.6999
				Adj R-squared =	0.6349
				Root MSE =	2172

load16	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	1126.359	168.2947	6.69	0.000	791.6277 1461.091
evtd1	-8328.304	2260.551	-3.68	0.000	-12824.45 -3832.159
evtd2	-7360.955	2474.376	-2.97	0.004	-12282.39 -2439.521
evtd3	-5787.781	2250.41	-2.57	0.012	-10263.76 -1311.807
evtd4	-7806.452	2039.079	-3.83	0.000	-11862.1 -3750.806
evtd5	-11008.14	2275.007	-4.84	0.000	-15533.03 -6483.24
evtd6	-10438	2578.375	-4.05	0.000	-15566.29 -5309.719
evtd7	-10932.13	2718.278	-4.02	0.000	-16338.67 -5525.581
evtd8	-12955.5	3167.746	-4.09	0.000	-19256.02 -6654.982
evtd9	-10174.09	2414.004	-4.21	0.000	-14975.45 -5372.737
dt2	1825.701	587.7493	3.11	0.003	656.6912 2994.711
dt3	2373.315	691.2199	3.43	0.001	998.5063 3748.123
dt4	1893.544	682.7209	2.77	0.007	535.6391 3251.448
dt5	429.6681	573.0306	0.75	0.455	-710.0667 1569.403
m6	2994.439	1202.547	2.49	0.015	602.6219 5386.257
m7	390.4892	1501.493	0.26	0.795	-2595.921 3376.899
m8	-324.6101	1765.588	-0.18	0.855	-3836.293 3187.073
m9	-944.7776	1386.03	-0.68	0.497	-3701.537 1811.981
_cons	59378.91	1009.011	58.85	0.000	57372.03 61385.79

rho | .4884773

Durbin-Watson statistic (original) 1.102121

Durbin-Watson statistic (transformed) 1.686354

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	954109569	18	53006087.2	F( 18, 83) =	9.82
Residual	447992695	83	5397502.35	Prob > F =	0.0000
Total	1.4021e+09	101	13882200.6	R-squared =	0.6805
				Adj R-squared =	0.6112
				Root MSE =	2323.3

load17	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	1230.623	182.9745	6.73	0.000	866.6945 1594.552

evtd1	-11091.6	2408.927	-4.60	0.000	-15882.86	-6300.344
evtd2	-9127.128	2652.332	-3.44	0.001	-14402.51	-3851.747
evtd3	-7723.215	2398.463	-3.22	0.002	-12493.66	-2952.769
evtd4	-8082.297	2153.889	-3.75	0.000	-12366.3	-3798.298
evtd5	-12003.46	2430.402	-4.94	0.000	-16837.43	-7169.486
evtd6	-11581.93	2784.251	-4.16	0.000	-17119.69	-6044.163
evtd7	-13385.42	2946.512	-4.54	0.000	-19245.91	-7524.925
evtd8	-14361.56	3416.418	-4.20	0.000	-21156.67	-7566.438
evtd9	-10986.27	2577.566	-4.26	0.000	-16112.95	-5859.599
dt2	629.1611	621.1673	1.01	0.314	-606.3157	1864.638
dt3	1509.348	734.3352	2.06	0.043	48.78491	2969.911
dt4	808.1454	725.3459	1.11	0.268	-634.5384	2250.829
dt5	-128.4771	605.5736	-0.21	0.833	-1332.939	1075.984
m6	2427.027	1341.669	1.81	0.074	-241.4977	5095.552
m7	303.1768	1670.128	0.18	0.856	-3018.64	3624.994
m8	-1696.142	1951.283	-0.87	0.387	-5577.165	2184.882
m9	-1545.272	1557.218	-0.99	0.324	-4642.516	1551.972
_cons	61787.72	1122.737	55.03	0.000	59554.64	64020.8

rho | .5180286

Durbin-Watson statistic (original) 1.097546  
Durbin-Watson statistic (transformed) 1.776641

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	952128405	18	52896022.5	F( 18, 83) =	12.82
Residual	342411113	83	4125435.1	Prob > F =	0.0000
				R-squared =	0.7355
				Adj R-squared =	0.6781
Total	1.2945e+09	101	12817223	Root MSE =	2031.1

load18	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	1155.1	170.9083	6.76	0.000	815.1706 1495.03
evtd1	-11112.43	2048.933	-5.42	0.000	-15187.67 -7037.181
evtd2	-8917.935	2312.717	-3.86	0.000	-13517.84 -4318.033
evtd3	-6593.951	2042.431	-3.23	0.002	-10656.27 -2531.637
evtd4	-7427.184	1760.409	-4.22	0.000	-10928.57 -3925.801
evtd5	-10441.08	2106.458	-4.96	0.000	-14630.74 -6251.423
evtd6	-10273.88	2548.937	-4.03	0.000	-15343.61 -5204.145
evtd7	-10482.92	2760.694	-3.80	0.000	-15973.83 -4992.012
evtd8	-11225.3	3079.472	-3.65	0.000	-17350.24 -5100.35
evtd9	-8647.097	2221.734	-3.89	0.000	-13066.04 -4228.158
dt2	477.3036	509.5884	0.94	0.352	-536.2472 1490.854
dt3	1007.535	615.2114	1.64	0.105	-216.0954 2231.166
dt4	972.5116	607.9031	1.60	0.113	-236.5833 2181.606
dt5	-23.28089	497.6991	-0.05	0.963	-1013.184 966.6226
m6	2359.678	1467.766	1.61	0.112	-559.6491 5279.006
m7	820.9196	1819.034	0.45	0.653	-2797.065 4438.904
m8	-655.9596	2052.121	-0.32	0.750	-4737.545 3425.626
m9	-1540.818	1830.435	-0.84	0.402	-5181.479 2099.844
_cons	59773.18	1261.959	47.37	0.000	57263.19 62283.16

rho | .6678873

Durbin-Watson statistic (original) 0.893779  
Durbin-Watson statistic (transformed) 1.693709



Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	748543200	18	41585733.3	F( 18, 83) =	10.71
Residual	322163133	83	3881483.53	Prob > F =	0.0000
				R-squared =	0.6991
				Adj R-squared =	0.6339
Total	1.0707e+09	101	10601052.8	Root MSE =	1970.1

load19	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	1074.74	166.854	6.44	0.000	742.8736 1406.605
evtd1	-4489.457	1977.456	-2.27	0.026	-8422.537 -556.378
evtd2	-3814.603	2238	-1.70	0.092	-8265.896 636.6892
evtd3	-687.4516	1971.551	-0.35	0.728	-4608.787 3233.884
evtd4	-4182.87	1691.199	-2.47	0.015	-7546.597 -819.1438
evtd5	-5686.913	2039.88	-2.79	0.007	-9744.152 -1629.674
evtd6	-3560.729	2486.703	-1.43	0.156	-8506.682 1385.223
evtd7	-8434.336	2703.705	-3.12	0.002	-13811.9 -3056.776
evtd8	-7252.221	2994.412	-2.42	0.018	-13207.99 -1296.456
evtd9	-5067.278	2149.088	-2.36	0.021	-9341.728 -792.8286
dt2	-9.09008	489.813	-0.02	0.985	-983.3085 965.1283
dt3	778.8873	592.7026	1.31	0.192	-399.9743 1957.749
dt4	546.8597	585.7017	0.93	0.353	-618.0775 1711.797
dt5	242.6915	478.6413	0.51	0.613	-709.3069 1194.69
m6	2069.739	1469.028	1.41	0.163	-852.0997 4991.577
m7	967.6217	1823.909	0.53	0.597	-2660.06 4595.303
m8	510.0768	2049.496	0.25	0.804	-3566.288 4586.441
m9	-1947.523	1864.43	-1.04	0.299	-5655.799 1760.752
_cons	57863.1	1277.668	45.29	0.000	55321.87 60404.33
rho	.6884825				

Durbin-Watson statistic (original) 0.856416  
 Durbin-Watson statistic (transformed) 1.939818

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	676410766	18	37578375.9	F( 18, 83) =	10.09
Residual	309076459	83	3723812.76	Prob > F =	0.0000
				R-squared =	0.6864
				Adj R-squared =	0.6184
Total	985487225	101	9757299.26	Root MSE =	1929.7

load20	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cdd_bldall	881.7017	158.0601	5.58	0.000	567.3264 1196.077
evtd1	-2278.748	1975.471	-1.15	0.252	-6207.881 1650.386
evtd2	-1745.166	2206.656	-0.79	0.431	-6134.115 2643.784
evtd3	211.2558	1967.989	0.11	0.915	-3702.995 4125.507
evtd4	-1201.007	1726.96	-0.70	0.489	-4635.86 2233.847
evtd5	-2014.326	2010.62	-1.00	0.319	-6013.369 1984.717
evtd6	-1442.012	2372.038	-0.61	0.545	-6159.901 3275.877
evtd7	-2455.266	2539.27	-0.97	0.336	-7505.773 2595.24
evtd8	-5376.832	2892.027	-1.86	0.067	-11128.96 375.2926
evtd9	-2205.994	2127.391	-1.04	0.303	-6437.289 2025.302
dt2	118.544	498.9877	0.24	0.813	-873.9224 1111.01
dt3	1154.751	597.1562	1.93	0.057	-32.96868 2342.471
dt4	503.9771	589.9496	0.85	0.395	-669.4091 1677.363

dt5	428.5158	486.7092	0.88	0.381	-539.5293	1396.561
m6	1884.046	1254.273	1.50	0.137	-610.6525	4378.744
m7	1102.509	1552.904	0.71	0.480	-1986.156	4191.173
m8	832.2401	1780.182	0.47	0.641	-2708.47	4372.95
m9	-1179.044	1498.171	-0.79	0.434	-4158.847	1800.758
_cons	56838.42	1054.033	53.92	0.000	54741.99	58934.85
-----						
rho	.5981217					

Durbin-Watson statistic (original) 0.953467  
Durbin-Watson statistic (transformed) 2.093612

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	650621898	18	36145661	F( 18, 83) =	9.87
Residual	304113759	83	3664021.19	Prob > F =	0.0000
-----				R-squared =	0.6815
-----				Adj R-squared =	0.6124
Total	954735656	101	9452828.28	Root MSE =	1914.2

load21	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
cdd_bldall	870.2729	153.2282	5.68	0.000	565.5082	1175.038
evtd1	-570.7097	1975.81	-0.29	0.773	-4500.516	3359.097
evtd2	1297.243	2188.365	0.59	0.555	-3055.327	5649.814
evtd3	1047.071	1967.604	0.53	0.596	-2866.414	4960.555
evtd4	-162.8789	1750.66	-0.09	0.926	-3644.87	3319.113
evtd5	-1779.804	1999.559	-0.89	0.376	-5756.847	2197.239
evtd6	-2656.634	2317.118	-1.15	0.255	-7265.289	1952.022
evtd7	-2266.997	2462.674	-0.92	0.360	-7165.157	2631.163
evtd8	-3006.781	2837.609	-1.06	0.292	-8650.672	2637.109
evtd9	-2370.663	2119.054	-1.12	0.266	-6585.376	1844.05
dt2	59.47766	505.2216	0.12	0.907	-945.3878	1064.343
dt3	1391.61	600.3153	2.32	0.023	197.6072	2585.613
dt4	504.5759	593.0046	0.85	0.397	-674.8864	1684.038
dt5	290.3544	492.5765	0.59	0.557	-689.3604	1270.069
m6	1536.774	1156.993	1.33	0.188	-764.4385	3837.987
m7	702.2638	1436.351	0.49	0.626	-2154.581	3559.108
m8	-120.1943	1666.054	-0.07	0.943	-3433.908	3193.519
m9	-2547.668	1355.379	-1.88	0.064	-5243.462	148.1252
_cons	56785.91	967.6476	58.68	0.000	54861.3	58710.52
-----						
rho	.5493447					

Durbin-Watson statistic (original) 1.025502  
Durbin-Watson statistic (transformed) 2.132139

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	662134171	18	36785231.7	F( 18, 83) =	9.38
Residual	325547703	83	3922261.48	Prob > F =	0.0000
-----				R-squared =	0.6704
-----				Adj R-squared =	0.5989
Total	987681874	101	9779028.46	Root MSE =	1980.5

load22	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
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cdd_bldall	691.6277	154.8242	4.47	0.000	383.6886	999.5668
evtd1	612.096	2057.18	0.30	0.767	-3479.552	4703.744
evtd2	2867.346	2258.979	1.27	0.208	-1625.672	7360.364
evtd3	3277.441	2048.099	1.60	0.113	-796.1448	7351.027
evtd4	-1750.412	1846.825	-0.95	0.346	-5423.673	1922.848
evtd5	668.3937	2073.027	0.32	0.748	-3454.773	4791.56
evtd6	-589.2168	2363.06	-0.25	0.804	-5289.248	4110.814
evtd7	-2961.806	2496.315	-1.19	0.239	-7926.876	2003.264
evtd8	-2197.709	2901.479	-0.76	0.451	-7968.633	3573.216
evtd9	-1785.372	2199.123	-0.81	0.419	-6159.339	2588.594
dt2	781.0919	532.4745	1.47	0.146	-277.9783	1840.162
dt3	1521.078	628.0037	2.42	0.018	272.0038	2770.152
dt4	569.1098	620.2999	0.92	0.362	-664.6417	1802.861
dt5	759.3892	519.1141	1.46	0.147	-273.1079	1791.886
m6	1345.791	1121.545	1.20	0.234	-884.9168	3576.499
m7	1065.53	1398.003	0.76	0.448	-1715.041	3846.1
m8	1369.63	1638.295	0.84	0.406	-1888.872	4628.132
m9	-2311.369	1297.292	-1.78	0.078	-4891.63	268.892
_cons	55300.93	939.4682	58.86	0.000	53432.36	57169.49
-----						
rho	.5043848					

Durbin-Watson statistic (original) 1.157966  
Durbin-Watson statistic (transformed) 2.030752

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	746022370	18	41445687.2	F( 18, 83) =	8.28
Residual	415290905	83	5003504.88	Prob > F =	0.0000
-----				R-squared =	0.6424
-----				Adj R-squared =	0.5648
Total	1.1613e+09	101	11498151.2	Root MSE =	2236.9

load23	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
cdd_bldall	643.0611	170.1483	3.78	0.000	304.6431	981.4791
evtd1	1859.311	2336.251	0.80	0.428	-2787.398	6506.02
evtd2	4015.118	2540.419	1.58	0.118	-1037.673	9067.909
evtd3	4247.341	2325.514	1.83	0.071	-378.0127	8872.694
evtd4	-3307.769	2127.747	-1.55	0.124	-7539.771	924.2342
evtd5	1270.683	2345.832	0.54	0.589	-3395.082	5936.448
evtd6	1392.958	2628.483	0.53	0.598	-3834.989	6620.905
evtd7	-858.752	2760.489	-0.31	0.757	-6349.253	4631.749
evtd8	-2777.846	3231.529	-0.86	0.392	-9205.228	3649.535
evtd9	-2583.239	2490.051	-1.04	0.303	-7535.851	2369.373
dt2	1428.917	613.0705	2.33	0.022	209.5446	2648.29
dt3	2330.427	716.6343	3.25	0.002	905.0698	3755.783
dt4	858.9063	707.7858	1.21	0.228	-548.8512	2266.664
dt5	1171.02	597.8404	1.96	0.054	-18.06095	2360.1
m6	1425.25	1184.742	1.20	0.232	-931.1548	3781.656
m7	1422.658	1484.639	0.96	0.341	-1530.229	4375.545
m8	2313.479	1757.01	1.32	0.192	-1181.143	5808.101
m9	-1613.582	1357.365	-1.19	0.238	-4313.327	1086.163
_cons	53517.65	998.9081	53.58	0.000	51530.87	55504.44
-----						
rho	.4566805					

Durbin-Watson statistic (original) 1.235034  
Durbin-Watson statistic (transformed) 1.977682

Prais-Winsten AR(1) regression -- iterated estimates

Source	SS	df	MS	Number of obs =	102
Model	684020121	18	38001117.8	F( 18, 83) =	9.17
Residual	344093386	83	4145703.45	Prob > F =	0.0000
				R-squared =	0.6653
				Adj R-squared =	0.5927
Total	1.0281e+09	101	10179341.7	Root MSE =	2036.1

load24	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
cdd_bldall	651.6104	146.8086	4.44	0.000	359.6141	943.6068
evtd1	2665.525	2142.114	1.24	0.217	-1595.053	6926.103
evtd2	4098.634	2286.063	1.79	0.077	-448.2539	8645.522
evtd3	3483.793	2132.121	1.63	0.106	-756.9096	7724.495
evtd4	-3572.944	2002.437	-1.78	0.078	-7555.711	409.8226
evtd5	1629.968	2141.656	0.76	0.449	-2629.699	5889.635
evtd6	4835.471	2330.056	2.08	0.041	201.0827	9469.859
evtd7	-392.2466	2425.156	-0.16	0.872	-5215.784	4431.291
evtd8	-2811.431	2860.876	-0.98	0.329	-8501.598	2878.736
evtd9	-2706.769	2273.523	-1.19	0.237	-7228.714	1815.176
dt2	1190.853	577.1665	2.06	0.042	42.89166	2338.814
dt3	1642.546	661.9506	2.48	0.015	325.9532	2959.139
dt4	536.7593	653.7126	0.82	0.414	-763.4489	1836.967
dt5	899.7892	563.4913	1.60	0.114	-220.9723	2020.551
m6	1908.212	962.3009	1.98	0.051	-5.765715	3822.19
m7	987.944	1218.865	0.81	0.420	-1436.33	3412.218
m8	2221.591	1463.482	1.52	0.133	-689.2152	5132.396
m9	-1218.403	1091.033	-1.12	0.267	-3388.425	951.6183
_cons	52177.85	828.6499	62.97	0.000	50529.7	53826
rho	.3709801					

Durbin-Watson statistic (original) 1.332944  
 Durbin-Watson statistic (transformed) 1.984697



### 3. Event Specific Load Impacts for Capacity Bidding Program

Customers have the choice to enroll in different options of the capacity bidding program. Results here are shown for the day-ahead 4 hour maximum event length option (DA4), the day-ahead 6 hour maximum (DA6), and the day-of 4 hour maximum (DO4). The results for the DO4 option are further split out into large customers and all other customers because large differences between the sizes of the customers enrolled required these groups to be modeled separately.

07/03/2007		Capacity Bidding DA4 Total Load Impact							
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	10.4	10.3	-0.1	0.0	-0.9	-0.6	-0.1	0.4	0.7
2	9.8	9.7	-0.1	0.0	-0.7	-0.5	-0.1	0.3	0.6
3	9.7	9.2	-0.5	0.0	-1.3	-1.0	-0.5	0.0	0.2
4	9.6	9.9	0.2	0.0	-0.5	-0.2	0.2	0.7	1.0
5	10.4	10.3	-0.1	0.0	-0.9	-0.6	-0.1	0.3	0.6
6	11.3	11.6	0.3	0.0	-0.4	-0.2	0.3	0.8	1.0
7	11.5	12.4	0.8	0.0	0.0	0.3	0.8	1.4	1.7
8	12.2	13.7	1.4	0.0	0.2	0.6	1.4	2.2	2.7
9	12.5	14.5	2.0	4.0	0.4	1.0	2.0	3.0	3.6
10	13.5	14.5	1.0	9.0	0.3	0.6	1.0	1.5	1.8
11	13.7	13.9	0.2	6.0	-0.2	0.0	0.2	0.5	0.6
12	13.7	13.7	0.0	7.0	0.0	0.0	0.0	0.0	0.0
13	13.7	11.4	-2.4	7.0	-2.7	-2.6	-2.4	-2.1	-2.0
14	13.4	9.5	-3.9	7.0	-4.7	-4.4	-3.9	-3.4	-3.1
15	13.1	8.6	-4.6	5.1	-5.2	-4.9	-4.6	-4.2	-3.9
16	13.2	8.8	-4.4	5.1	-5.1	-4.8	-4.4	-4.1	-3.8
17	12.7	8.5	-4.2	0.9	-4.9	-4.6	-4.2	-3.8	-3.5
18	12.3	8.5	-3.9	0.0	-4.6	-4.3	-3.9	-3.4	-3.2
19	11.6	10.9	-0.7	0.0	-1.4	-1.1	-0.7	-0.2	0.1
20	11.0	10.3	-0.7	0.0	-1.4	-1.2	-0.7	-0.3	0.0
21	11.1	9.9	-1.2	0.0	-1.9	-1.6	-1.2	-0.8	-0.5
22	11.3	9.6	-1.6	0.0	-2.7	-2.3	-1.6	-0.9	-0.5
23	11.1	9.6	-1.5	0.0	-2.5	-2.1	-1.5	-0.9	-0.5
24	13.9	12.4	-1.5	0.0	-2.4	-2.1	-1.5	-1.0	-0.7
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	287	262	-25	51.1	10th	30th	50th	70th	90th
					-44	-37	-25	-14	-7

07/05/2007		Capacity Bidding DA4 Total Load Impact							
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	9.9	7.7	-2.2	0.0	-3.0	-2.7	-2.2	-1.7	-1.3
2	9.4	7.9	-1.5	0.0	-2.2	-1.9	-1.5	-1.1	-0.9
3	9.3	7.6	-1.8	0.0	-2.5	-2.2	-1.8	-1.3	-1.0
4	9.3	7.9	-1.5	0.0	-2.2	-1.9	-1.5	-1.0	-0.7
5	10.1	8.5	-1.6	0.0	-2.3	-2.0	-1.6	-1.1	-0.8
6	10.7	9.9	-0.8	0.0	-1.5	-1.2	-0.8	-0.3	0.0
7	11.2	9.8	-1.5	0.0	-2.3	-2.0	-1.5	-0.9	-0.6
8	11.3	10.9	-0.4	0.0	-1.7	-1.2	-0.4	0.4	0.8
9	11.2	11.9	0.7	0.0	-0.9	-0.3	0.7	1.7	2.3
10	11.7	12.2	0.5	0.0	-0.2	0.0	0.5	1.0	1.3
11	12.2	12.4	0.2	0.0	-0.2	0.0	0.2	0.5	0.7
12	12.3	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	12.5	10.2	-2.3	0.0	-2.6	-2.5	-2.3	-2.1	-1.9
14	12.2	8.5	-3.7	2.0	-4.6	-4.2	-3.7	-3.2	-2.9
15	12.0	8.4	-3.7	4.0	-4.3	-4.0	-3.7	-3.3	-3.1
16	12.2	8.4	-3.8	7.0	-4.4	-4.2	-3.8	-3.4	-3.2
17	11.6	8.3	-3.3	0.0	-4.0	-3.7	-3.3	-2.9	-2.6
18	11.1	7.8	-3.2	0.0	-4.0	-3.7	-3.2	-2.8	-2.5
19	10.3	10.1	-0.2	0.0	-0.9	-0.6	-0.2	0.3	0.6
20	9.7	9.5	-0.1	0.0	-0.9	-0.6	-0.1	0.3	0.6
21	9.7	9.8	0.1	0.0	-0.6	-0.4	0.1	0.5	0.8
22	9.6	10.5	0.8	0.0	-0.3	0.1	0.8	1.5	1.9
23	9.7	10.4	0.7	0.0	-0.3	0.1	0.7	1.3	1.7
24	12.7	12.7	0.0	0.0	-0.9	-0.5	0.0	0.5	0.9
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	262	234	-28	13.0	-47	-40	-28	-17	-10

07/27/2007		Capacity Bidding DA4 Total Load Impact							
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	10.8	10.9	0.1	0.0	-0.8	-0.4	0.1	0.7	1.0
2	10.2	10.2	0.0	0.0	-0.7	-0.4	0.0	0.5	0.7
3	10.0	10.3	0.3	0.0	-0.5	-0.2	0.3	0.8	1.1
4	9.8	10.1	0.2	0.0	-0.6	-0.3	0.2	0.7	1.0
5	10.8	11.1	0.3	0.0	-0.4	-0.1	0.3	0.8	1.1
6	11.8	11.7	-0.1	0.0	-0.9	-0.6	-0.1	0.4	0.7
7	12.3	11.9	-0.3	0.0	-1.3	-0.9	-0.3	0.2	0.6
8	13.3	12.6	-0.7	0.0	-2.1	-1.6	-0.7	0.1	0.6
9	14.2	13.3	-0.9	6.0	-2.6	-2.0	-0.9	0.1	0.8
10	14.2	13.8	-0.5	11.0	-1.3	-1.0	-0.5	0.0	0.3
11	14.5	14.3	-0.3	13.0	-0.7	-0.5	-0.3	0.0	0.2
12	14.5	14.5	0.0	16.0	0.0	0.0	0.0	0.0	0.0
13	14.6	14.3	-0.4	7.9	-0.7	-0.6	-0.4	-0.1	0.0
14	14.7	12.7	-2.0	9.9	-2.9	-2.5	-2.0	-1.5	-1.1
15	13.8	9.2	-4.6	9.0	-5.2	-5.0	-4.6	-4.2	-4.0
16	13.6	9.0	-4.6	6.0	-5.2	-5.0	-4.6	-4.2	-3.9
17	13.3	8.7	-4.5	6.0	-5.2	-5.0	-4.5	-4.1	-3.8
18	12.7	8.3	-4.4	3.1	-5.2	-4.9	-4.4	-3.9	-3.6
19	11.7	9.3	-2.4	0.0	-3.2	-2.9	-2.4	-2.0	-1.7
20	11.0	10.6	-0.4	0.0	-1.2	-0.9	-0.4	0.0	0.3
21	11.2	10.4	-0.8	0.0	-1.6	-1.3	-0.8	-0.4	-0.1
22	11.6	10.9	-0.7	0.0	-1.9	-1.4	-0.7	0.0	0.4
23	11.3	10.9	-0.4	0.0	-1.5	-1.1	-0.4	0.2	0.6
24	14.0	9.9	-4.1	0.0	-5.0	-4.7	-4.1	-3.5	-3.2
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	300	269	-31	87.9	10th	30th	50th	70th	90th
					-50	-43	-31	-19	-12



08/15/2007		Capacity Bidding			DA4 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	11.3	11.3	-0.1	0.0	-0.9	-0.6	-0.1	0.5	0.8
2	10.9	10.7	-0.2	0.0	-0.9	-0.6	-0.2	0.3	0.5
3	10.7	10.8	0.1	0.0	-0.7	-0.4	0.1	0.6	0.9
4	10.5	10.9	0.4	0.0	-0.4	-0.1	0.4	0.9	1.2
5	11.2	11.2	-0.1	0.0	-0.9	-0.6	-0.1	0.4	0.7
6	12.6	12.3	-0.3	0.0	-1.1	-0.8	-0.3	0.2	0.5
7	13.3	13.3	0.0	0.0	-0.9	-0.6	0.0	0.6	0.9
8	14.5	14.9	0.4	0.0	-1.0	-0.5	0.4	1.2	1.7
9	15.1	15.9	0.8	4.0	-0.9	-0.3	0.8	1.8	2.5
10	15.1	14.8	-0.4	7.0	-1.2	-0.9	-0.4	0.1	0.5
11	15.6	15.4	-0.1	9.9	-0.6	-0.4	-0.1	0.2	0.3
12	15.6	15.6	0.0	14.1	0.0	0.0	0.0	0.0	0.0
13	15.5	15.5	0.0	12.1	-0.4	-0.2	0.0	0.2	0.3
14	15.2	14.1	-1.1	9.9	-2.0	-1.7	-1.1	-0.6	-0.3
15	14.9	10.3	-4.6	9.9	-5.3	-5.0	-4.6	-4.2	-4.0
16	14.3	10.3	-4.1	7.0	-4.7	-4.5	-4.1	-3.7	-3.4
17	14.3	10.0	-4.4	5.1	-5.1	-4.8	-4.4	-3.9	-3.7
18	14.0	9.9	-4.1	0.9	-4.9	-4.6	-4.1	-3.6	-3.3
19	12.9	11.6	-1.3	0.0	-2.1	-1.8	-1.3	-0.9	-0.6
20	12.2	11.2	-0.9	0.0	-1.7	-1.4	-0.9	-0.5	-0.2
21	12.5	11.4	-1.0	0.0	-1.8	-1.5	-1.0	-0.5	-0.3
22	12.7	12.2	-0.5	0.0	-1.6	-1.2	-0.5	0.2	0.7
23	12.2	11.9	-0.3	0.0	-1.3	-0.9	-0.3	0.4	0.8
24	15.1	15.2	0.1	0.0	-0.8	-0.4	0.1	0.7	1.1
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	322	301	-22	80.0	-41	-34	-22	-10	-2

08/16/2007 Capacity Bidding DA4 Total Load Impact									
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	11.3	11.7	0.4	0.0	-0.5	-0.1	0.4	1.0	1.3
2	10.9	10.9	0.0	0.0	-0.7	-0.4	0.0	0.4	0.7
3	10.5	10.5	0.1	0.0	-0.7	-0.4	0.1	0.6	0.9
4	10.4	10.7	0.3	0.0	-0.5	-0.2	0.3	0.8	1.1
5	11.3	11.2	-0.1	0.0	-0.9	-0.6	-0.1	0.4	0.7
6	12.6	12.3	-0.2	0.0	-1.0	-0.7	-0.2	0.3	0.6
7	13.2	12.9	-0.2	0.0	-1.2	-0.8	-0.2	0.3	0.7
8	14.4	14.6	0.2	2.0	-1.2	-0.7	0.2	1.0	1.5
9	15.1	16.0	0.9	7.0	-0.8	-0.1	0.9	2.0	2.6
10	15.1	15.6	0.4	13.0	-0.4	-0.1	0.4	0.9	1.3
11	15.5	15.4	0.0	9.9	-0.5	-0.3	0.0	0.3	0.4
12	15.4	15.4	0.0	9.0	0.0	0.0	0.0	0.0	0.0
13	15.5	15.4	-0.1	9.9	-0.5	-0.4	-0.1	0.1	0.2
14	15.6	15.1	-0.5	9.0	-1.3	-1.0	-0.5	0.1	0.4
15	14.7	10.5	-4.2	7.9	-4.8	-4.5	-4.2	-3.8	-3.5
16	14.4	10.3	-4.2	7.9	-4.8	-4.6	-4.2	-3.8	-3.5
17	14.1	10.0	-4.1	7.9	-4.8	-4.5	-4.1	-3.7	-3.4
18	13.5	9.7	-3.8	6.0	-4.6	-4.3	-3.8	-3.3	-3.0
19	12.4	11.7	-0.7	0.0	-1.5	-1.2	-0.7	-0.3	0.0
20	11.7	11.6	-0.1	0.0	-0.8	-0.5	-0.1	0.4	0.7
21	11.9	11.8	-0.2	0.0	-0.9	-0.6	-0.2	0.3	0.6
22	12.4	12.7	0.3	0.0	-0.8	-0.4	0.3	1.0	1.5
23	11.8	11.9	0.1	0.0	-1.0	-0.6	0.1	0.7	1.1
24	14.4	15.0	0.6	0.0	-0.3	0.0	0.6	1.1	1.5
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	318	303	-15	89.7	10th	30th	50th	70th	90th
					-34	-27	-15	-3	4

08/21/2007		Capacity Bidding			DA4 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	10.9	10.8	-0.1	0.0	-0.9	-0.6	-0.1	0.4	0.7
2	10.5	10.2	-0.2	0.0	-0.9	-0.6	-0.2	0.2	0.4
3	10.2	9.9	-0.3	0.0	-1.0	-0.7	-0.3	0.2	0.5
4	10.2	9.9	-0.2	0.0	-1.0	-0.7	-0.2	0.2	0.5
5	10.9	10.6	-0.3	0.0	-1.1	-0.8	-0.3	0.2	0.5
6	11.9	11.9	0.0	0.0	-0.8	-0.5	0.0	0.4	0.7
7	12.4	12.9	0.5	0.0	-0.4	-0.1	0.5	1.0	1.4
8	13.2	14.1	0.9	0.0	-0.4	0.1	0.9	1.7	2.2
9	13.2	15.3	2.1	4.0	0.5	1.1	2.1	3.1	3.7
10	14.3	14.3	0.0	9.9	-0.7	-0.4	0.0	0.5	0.8
11	14.6	14.5	0.0	14.1	-0.5	-0.3	0.0	0.2	0.4
12	14.6	14.6	0.0	15.0	0.0	0.0	0.0	0.0	0.0
13	14.6	14.4	-0.2	16.9	-0.5	-0.4	-0.2	0.0	0.2
14	14.1	11.0	-3.1	14.1	-4.0	-3.7	-3.1	-2.6	-2.3
15	14.0	10.0	-4.0	12.1	-4.6	-4.3	-4.0	-3.6	-3.3
16	14.0	10.0	-4.0	9.0	-4.6	-4.3	-4.0	-3.6	-3.3
17	13.5	9.6	-3.9	5.1	-4.5	-4.3	-3.9	-3.4	-3.2
18	13.1	9.7	-3.4	0.9	-4.1	-3.8	-3.4	-2.9	-2.6
19	12.2	11.3	-0.9	0.0	-1.6	-1.3	-0.9	-0.4	-0.1
20	11.7	11.2	-0.5	0.0	-1.2	-0.9	-0.5	0.0	0.3
21	11.7	11.3	-0.4	0.0	-1.1	-0.9	-0.4	0.0	0.3
22	11.9	12.1	0.2	0.0	-0.9	-0.5	0.2	0.9	1.3
23	11.5	11.4	-0.1	0.0	-1.1	-0.7	-0.1	0.5	0.9
24	14.3	14.1	-0.2	0.0	-1.0	-0.7	-0.2	0.4	0.7
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	303	285	-18	101.0	-36	-29	-18	-6	1

08/29/2007		Capacity Bidding DA4 Total Load Impact							
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	10.8	11.0	0.2	0.0	-0.7	-0.4	0.2	0.7	1.0
2	10.5	11.0	0.5	0.0	-0.2	0.1	0.5	0.9	1.2
3	10.3	10.5	0.2	0.0	-0.6	-0.3	0.2	0.6	0.9
4	10.2	10.2	-0.1	0.0	-0.8	-0.5	-0.1	0.4	0.7
5	10.9	10.8	-0.1	0.0	-0.8	-0.5	-0.1	0.4	0.7
6	12.0	12.2	0.2	0.0	-0.6	-0.3	0.2	0.6	0.9
7	12.7	12.8	0.1	0.0	-0.7	-0.4	0.1	0.7	1.0
8	13.5	13.8	0.3	0.9	-0.9	-0.4	0.3	1.1	1.6
9	13.5	14.7	1.2	5.1	-0.4	0.2	1.2	2.2	2.8
10	13.8	14.3	0.6	7.0	-0.2	0.1	0.6	1.0	1.3
11	14.3	14.1	-0.2	7.9	-0.7	-0.5	-0.2	0.0	0.2
12	14.5	14.5	0.0	9.9	0.0	0.0	0.0	0.0	0.0
13	14.4	12.1	-2.4	12.1	-2.7	-2.6	-2.4	-2.2	-2.0
14	13.9	10.8	-3.2	9.0	-4.0	-3.7	-3.2	-2.6	-2.3
15	14.0	10.1	-4.0	9.0	-4.6	-4.3	-4.0	-3.6	-3.3
16	13.6	9.8	-3.8	7.9	-4.4	-4.2	-3.8	-3.4	-3.2
17	13.5	9.6	-3.9	5.1	-4.6	-4.3	-3.9	-3.5	-3.2
18	13.2	9.3	-3.9	2.0	-4.6	-4.4	-3.9	-3.5	-3.2
19	12.2	11.7	-0.5	0.0	-1.2	-0.9	-0.5	0.0	0.3
20	11.5	11.3	-0.2	0.0	-0.9	-0.6	-0.2	0.3	0.5
21	11.7	11.5	-0.2	0.0	-0.9	-0.6	-0.2	0.3	0.6
22	11.7	12.4	0.7	0.0	-0.4	0.1	0.7	1.4	1.8
23	11.4	11.7	0.3	0.0	-0.7	-0.3	0.3	0.9	1.3
24	14.4	14.3	-0.1	0.0	-0.9	-0.6	-0.1	0.5	0.8
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	303	285	-18	76.0	10th	30th	50th	70th	90th
					-36	-29	-18	-7	0

08/31/2007		Capacity Bidding DA4 Total Load Impact								
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr)- Percentiles					
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile	
1	9.5	8.8	-0.7	0.0	-1.7	-1.3	-0.7	0.0	0.4	
2	9.4	8.9	-0.5	0.0	-1.3	-1.0	-0.5	0.0	0.4	
3	9.2	8.8	-0.3	0.0	-1.3	-0.9	-0.3	0.3	0.6	
4	9.4	8.6	-0.8	0.0	-1.8	-1.4	-0.8	-0.2	0.1	
5	10.0	8.8	-1.1	0.0	-2.1	-1.7	-1.1	-0.5	-0.2	
6	10.4	10.0	-0.4	0.0	-1.3	-1.0	-0.4	0.2	0.6	
7	11.2	10.9	-0.3	0.0	-1.4	-1.0	-0.3	0.4	0.8	
8	10.6	11.6	1.0	2.0	-0.6	0.0	1.0	1.9	2.5	
9	9.3	12.1	2.8	9.9	0.7	1.5	2.8	4.0	4.8	
10	10.3	12.2	2.0	13.0	1.0	1.4	2.0	2.6	3.0	
11	11.0	11.4	0.4	16.9	-0.1	0.1	0.4	0.8	1.0	
12	11.4	11.4	0.0	13.0	0.0	0.0	0.0	0.0	0.0	
13	11.4	11.1	-0.3	12.1	-0.7	-0.5	-0.3	0.0	0.2	
14	10.7	10.5	-0.2	12.1	-1.3	-0.9	-0.2	0.4	0.8	
15	11.4	9.7	-1.7	13.0	-2.4	-2.1	-1.7	-1.2	-0.9	
16	11.7	9.7	-2.0	12.1	-2.8	-2.5	-2.0	-1.5	-1.2	
17	11.0	9.4	-1.6	9.9	-2.4	-2.1	-1.6	-1.1	-0.7	
18	10.4	8.8	-1.6	9.0	-2.6	-2.2	-1.6	-1.1	-0.7	
19	9.7	9.9	0.2	3.1	-0.7	-0.3	0.2	0.8	1.2	
20	9.1	10.7	1.5	2.0	0.6	1.0	1.5	2.1	2.4	
21	9.1	11.0	1.9	2.0	1.0	1.4	1.9	2.5	2.8	
22	8.6	12.1	3.5	0.0	2.1	2.7	3.5	4.4	4.9	
23	8.9	11.4	2.5	0.0	1.3	1.7	2.5	3.3	3.8	
24	11.8	13.5	1.7	0.0	0.6	1.0	1.7	2.3	2.8	
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles					
					10th	30th	50th	70th	90th	
	245	251	6	130.1	-17	-8	6	20	29	

07/03/2007		Capacity Bidding DA6								
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Total Estimated Load Impact (mWh/hour)	Load Impact Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles					
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile	
1	4.0	4.0	0.1	0.0	-0.1	-0.1	0.1	0.2	0.3	
2	4.0	4.0	0.1	0.0	-0.2	-0.1	0.1	0.2	0.3	
3	3.9	3.9	0.0	0.0	-0.2	-0.1	0.0	0.2	0.3	
4	3.8	3.8	0.0	0.0	-0.2	-0.2	0.0	0.1	0.2	
5	3.8	3.8	0.0	0.0	-0.2	-0.1	0.0	0.1	0.2	
6	4.3	4.1	-0.2	0.0	-0.3	-0.3	-0.2	-0.1	0.0	
7	6.6	6.4	-0.2	0.0	-0.6	-0.4	-0.2	0.0	0.2	
8	6.4	6.3	-0.1	0.0	-0.4	-0.3	-0.1	0.1	0.2	
9	6.4	6.4	0.0	4.0	-0.2	-0.1	0.0	0.0	0.1	
10	6.5	6.4	-0.1	9.0	-0.2	-0.2	-0.1	-0.1	-0.1	
11	6.6	6.6	0.0	6.0	-0.1	-0.1	0.0	0.0	0.1	
12	6.7	6.7	0.0	7.0	0.0	0.0	0.0	0.0	0.0	
13	6.7	6.7	0.0	7.0	-0.1	-0.1	0.0	0.0	0.0	
14	6.8	6.7	0.0	7.0	-0.1	-0.1	0.0	0.0	0.0	
15	6.7	4.5	-2.2	5.1	-2.3	-2.3	-2.2	-2.2	-2.2	
16	6.8	4.4	-2.4	5.1	-2.5	-2.4	-2.4	-2.3	-2.3	
17	6.7	4.3	-2.4	0.9	-2.5	-2.5	-2.4	-2.4	-2.3	
18	6.7	6.3	-0.4	0.0	-0.5	-0.5	-0.4	-0.3	-0.3	
19	6.7	6.6	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1	
20	6.9	6.7	-0.2	0.0	-0.4	-0.3	-0.2	0.0	0.0	
21	7.4	7.3	-0.1	0.0	-0.2	-0.2	-0.1	-0.1	0.0	
22	7.3	7.3	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1	
23	4.6	6.0	1.4	0.0	1.2	1.3	1.4	1.5	1.5	
24	4.1	5.6	1.5	0.0	1.4	1.4	1.5	1.6	1.7	
Daily	Reference Energy Use (kWh)	Event Day Energy Use	Change in Energy Use (kWh)	Cooling Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles					
	140	135	-5	51.1	10th	30th	50th	70th	90th	
					-9	-8	-5	-3	-2	

07/05/2007		Capacity Bidding			DA6 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	3.9	3.7	-0.2	0.0	-0.4	-0.3	-0.2	-0.1	0.0
2	4.0	3.8	-0.2	0.0	-0.4	-0.3	-0.2	-0.1	0.0
3	3.9	3.7	-0.2	0.0	-0.4	-0.3	-0.2	-0.1	0.0
4	3.8	3.6	-0.2	0.0	-0.4	-0.3	-0.2	0.0	0.0
5	3.8	3.8	0.0	0.0	-0.2	-0.1	0.0	0.1	0.1
6	4.2	4.8	0.6	0.0	0.4	0.5	0.6	0.7	0.7
7	6.4	6.8	0.3	0.0	-0.1	0.1	0.3	0.5	0.7
8	6.3	6.4	0.1	0.0	-0.1	0.0	0.1	0.3	0.4
9	6.3	6.4	0.2	0.0	0.0	0.1	0.2	0.2	0.3
10	6.3	6.5	0.1	0.0	0.1	0.1	0.1	0.2	0.2
11	6.4	6.5	0.1	0.0	0.0	0.1	0.1	0.1	0.2
12	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	6.6	4.3	-2.3	0.0	-2.3	-2.3	-2.3	-2.3	-2.2
14	6.6	4.3	-2.3	2.0	-2.3	-2.3	-2.3	-2.3	-2.2
15	6.6	4.4	-2.2	4.0	-2.3	-2.3	-2.2	-2.2	-2.2
16	6.6	4.4	-2.2	7.0	-2.3	-2.2	-2.2	-2.1	-2.1
17	6.6	4.4	-2.2	0.0	-2.3	-2.3	-2.2	-2.2	-2.1
18	6.5	4.3	-2.2	0.0	-2.3	-2.3	-2.2	-2.1	-2.1
19	6.5	6.2	-0.3	0.0	-0.4	-0.3	-0.3	-0.2	-0.2
20	6.7	6.8	0.1	0.0	-0.1	0.0	0.1	0.3	0.3
21	7.3	7.3	0.0	0.0	-0.1	0.0	0.0	0.1	0.1
22	7.1	7.2	0.1	0.0	0.0	0.1	0.1	0.2	0.2
23	4.5	5.9	1.4	0.0	1.3	1.3	1.4	1.5	1.6
24	4.0	5.5	1.5	0.0	1.4	1.4	1.5	1.6	1.7
Daily	Reference	Actual	Change in	Cooling	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	10th	30th	50th	70th	90th
	137	128	-10	13.0	-13	-12	-10	-8	-7

07/27/2007		Capacity Bidding			DA6 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	4.0	4.2	0.2	0.0	0.0	0.1	0.2	0.3	0.4
2	4.0	4.3	0.3	0.0	0.1	0.1	0.3	0.4	0.5
3	3.9	4.2	0.2	0.0	0.0	0.1	0.2	0.4	0.5
4	3.9	4.1	0.2	0.0	0.0	0.1	0.2	0.4	0.5
5	3.9	4.1	0.3	0.0	0.1	0.2	0.3	0.4	0.4
6	4.2	5.1	0.8	0.0	0.7	0.7	0.8	0.9	1.0
7	6.5	6.5	0.0	0.0	-0.4	-0.2	0.0	0.2	0.4
8	6.4	6.4	0.0	0.0	-0.3	-0.2	0.0	0.1	0.2
9	6.3	6.4	0.1	6.0	0.0	0.0	0.1	0.2	0.2
10	6.4	6.5	0.1	11.0	0.0	0.0	0.1	0.1	0.1
11	6.5	6.5	0.0	13.0	-0.1	0.0	0.0	0.0	0.1
12	6.6	6.6	0.0	16.0	0.0	0.0	0.0	0.0	0.0
13	6.6	4.3	-2.3	7.9	-2.4	-2.4	-2.3	-2.3	-2.3
14	6.7	4.2	-2.5	9.9	-2.5	-2.5	-2.5	-2.4	-2.4
15	6.7	4.2	-2.5	9.0	-2.6	-2.5	-2.5	-2.4	-2.4
16	6.7	4.2	-2.5	6.0	-2.6	-2.5	-2.5	-2.4	-2.4
17	6.6	4.1	-2.5	6.0	-2.6	-2.6	-2.5	-2.4	-2.4
18	6.6	4.1	-2.5	3.1	-2.6	-2.6	-2.5	-2.4	-2.4
19	6.6	6.1	-0.5	0.0	-0.6	-0.5	-0.5	-0.4	-0.4
20	6.8	6.7	0.0	0.0	-0.3	-0.2	0.0	0.1	0.2
21	7.3	7.4	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1
22	7.2	7.3	0.1	0.0	0.0	0.1	0.1	0.2	0.2
23	4.6	6.0	1.5	0.0	1.3	1.4	1.5	1.6	1.6
24	4.0	5.5	1.5	0.0	1.3	1.4	1.5	1.6	1.6
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use	Change in Energy Use (kWh)	Cooling Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	139	129	-10	87.9	10th	30th	50th	70th	90th
					-13	-12	-10	-8	-7



07/27/2007		Capacity Bidding			DA6 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	4.0	4.2	0.2	0.0	0.0	0.1	0.2	0.3	0.4
2	4.0	4.3	0.3	0.0	0.1	0.1	0.3	0.4	0.5
3	3.9	4.2	0.2	0.0	0.0	0.1	0.2	0.4	0.5
4	3.9	4.1	0.2	0.0	0.0	0.1	0.2	0.4	0.5
5	3.9	4.1	0.3	0.0	0.1	0.2	0.3	0.4	0.4
6	4.2	5.1	0.8	0.0	0.7	0.7	0.8	0.9	1.0
7	6.5	6.5	0.0	0.0	-0.4	-0.2	0.0	0.2	0.4
8	6.4	6.4	0.0	0.0	-0.3	-0.2	0.0	0.1	0.2
9	6.3	6.4	0.1	6.0	0.0	0.0	0.1	0.2	0.2
10	6.4	6.5	0.1	11.0	0.0	0.0	0.1	0.1	0.1
11	6.5	6.5	0.0	13.0	-0.1	0.0	0.0	0.0	0.1
12	6.6	6.6	0.0	16.0	0.0	0.0	0.0	0.0	0.0
13	6.6	4.3	-2.3	7.9	-2.4	-2.4	-2.3	-2.3	-2.3
14	6.7	4.2	-2.5	9.9	-2.5	-2.5	-2.5	-2.4	-2.4
15	6.7	4.2	-2.5	9.0	-2.6	-2.5	-2.5	-2.4	-2.4
16	6.7	4.2	-2.5	6.0	-2.6	-2.5	-2.5	-2.4	-2.4
17	6.6	4.1	-2.5	6.0	-2.6	-2.6	-2.5	-2.4	-2.4
18	6.6	4.1	-2.5	3.1	-2.6	-2.6	-2.5	-2.4	-2.4
19	6.6	6.1	-0.5	0.0	-0.6	-0.5	-0.5	-0.4	-0.4
20	6.8	6.7	0.0	0.0	-0.3	-0.2	0.0	0.1	0.2
21	7.3	7.4	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1
22	7.2	7.3	0.1	0.0	0.0	0.1	0.1	0.2	0.2
23	4.6	6.0	1.5	0.0	1.3	1.4	1.5	1.6	1.6
24	Reference 4.0	Actual 5.5	Change in 1.5	Cooling 0.0	1.3	1.4	1.5	1.6	1.6
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	139	129	-10	87.9	-13	-12	-10	-8	-7

08/15/2007		Capacity Bidding			DA6 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	4.2	4.1	0.0	0.0	-0.2	-0.2	0.0	0.1	0.2
2	4.2	4.1	0.0	0.0	-0.2	-0.1	0.0	0.1	0.2
3	4.1	4.1	0.0	0.0	-0.2	-0.2	0.0	0.1	0.2
4	4.1	4.0	0.0	0.0	-0.3	-0.2	0.0	0.1	0.2
5	4.1	4.1	0.0	0.0	-0.2	-0.1	0.0	0.1	0.1
6	4.5	4.4	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.1
7	6.9	6.7	-0.2	0.0	-0.6	-0.4	-0.2	0.0	0.2
8	6.7	6.6	-0.1	0.0	-0.3	-0.2	-0.1	0.1	0.2
9	6.7	6.7	0.0	4.0	-0.2	-0.1	0.0	0.0	0.1
10	6.8	6.7	-0.1	7.0	-0.1	-0.1	-0.1	0.0	0.0
11	6.9	6.8	-0.1	9.9	-0.1	-0.1	-0.1	0.0	0.0
12	7.0	7.0	0.0	14.1	0.0	0.0	0.0	0.0	0.0
13	7.0	7.0	0.0	12.1	-0.1	0.0	0.0	0.0	0.1
14	7.1	7.0	-0.1	9.9	-0.1	-0.1	-0.1	0.0	0.0
15	7.0	4.8	-2.2	9.9	-2.3	-2.3	-2.2	-2.2	-2.2
16	7.0	4.6	-2.4	7.0	-2.5	-2.5	-2.4	-2.4	-2.4
17	7.0	4.6	-2.5	5.1	-2.6	-2.5	-2.5	-2.4	-2.4
18	7.0	6.5	-0.5	0.9	-0.6	-0.6	-0.5	-0.4	-0.4
19	7.0	6.8	-0.2	0.0	-0.3	-0.2	-0.2	-0.1	-0.1
20	7.4	7.3	-0.2	0.0	-0.4	-0.3	-0.2	0.0	0.1
21	7.8	7.5	-0.2	0.0	-0.3	-0.3	-0.2	-0.1	-0.1
22	7.6	7.5	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.0
23	4.9	4.7	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.0
24	4.4	4.2	-0.2	0.0	-0.3	-0.3	-0.2	-0.1	0.0
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use	Change in Energy Use (kWh)	Cooling Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	147	138	-9	80.0	10th	30th	50th	70th	90th
					-13	-11	-9	-7	-6

08/16/2007		Capacity Bidding			DA6 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	4.2	4.2	0.0	0.0	-0.2	-0.1	0.0	0.2	0.2
2	4.2	4.2	0.1	0.0	-0.1	-0.1	0.1	0.2	0.3
3	4.1	4.2	0.1	0.0	-0.1	0.0	0.1	0.2	0.3
4	4.0	4.2	0.1	0.0	-0.1	0.0	0.1	0.3	0.3
5	4.1	4.2	0.1	0.0	-0.1	0.0	0.1	0.2	0.3
6	4.5	4.6	0.1	0.0	-0.1	0.0	0.1	0.2	0.2
7	6.9	6.8	-0.1	0.0	-0.5	-0.3	-0.1	0.1	0.3
8	6.7	6.6	-0.1	2.0	-0.3	-0.2	-0.1	0.1	0.2
9	6.6	6.6	0.0	7.0	-0.1	0.0	0.0	0.1	0.1
10	6.7	6.7	0.0	13.0	-0.1	0.0	0.0	0.1	0.1
11	6.8	6.8	0.0	9.9	-0.1	-0.1	0.0	0.0	0.0
12	6.8	6.8	0.0	9.0	0.0	0.0	0.0	0.0	0.0
13	6.9	6.9	0.0	9.9	-0.1	-0.1	0.0	0.0	0.0
14	6.9	6.9	-0.1	9.0	-0.1	-0.1	-0.1	0.0	0.0
15	6.9	4.7	-2.2	7.9	-2.3	-2.3	-2.2	-2.2	-2.2
16	6.9	4.6	-2.3	7.9	-2.4	-2.4	-2.3	-2.3	-2.3
17	6.9	4.6	-2.3	7.9	-2.4	-2.4	-2.3	-2.3	-2.2
18	6.9	4.5	-2.4	6.0	-2.5	-2.4	-2.4	-2.3	-2.3
19	6.9	6.4	-0.5	0.0	-0.6	-0.5	-0.5	-0.4	-0.4
20	7.3	7.3	-0.1	0.0	-0.3	-0.2	-0.1	0.1	0.1
21	7.6	7.5	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.0
22	7.4	7.5	0.0	0.0	-0.1	0.0	0.0	0.1	0.1
23	4.8	4.7	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.1
24	4.2	4.3	0.0	0.0	-0.1	-0.1	0.0	0.1	0.2
Daily	Reference	Actual	Change in	Cooling	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	10th	30th	50th	70th	90th
	145	136	-10	89.7	-13	-12	-10	-8	-6

08/21/2007		Capacity Bidding			DA6 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	4.0	4.2	0.1	0.0	-0.1	0.0	0.1	0.3	0.3
2	4.1	4.2	0.1	0.0	-0.1	0.0	0.1	0.3	0.4
3	4.0	4.1	0.1	0.0	-0.1	0.0	0.1	0.3	0.4
4	3.9	4.0	0.1	0.0	-0.1	0.0	0.1	0.2	0.3
5	4.0	4.0	0.0	0.0	-0.1	-0.1	0.0	0.2	0.2
6	4.4	4.5	0.0	0.0	-0.2	-0.1	0.0	0.1	0.2
7	6.9	6.7	-0.2	0.0	-0.6	-0.5	-0.2	0.0	0.2
8	6.7	6.5	-0.1	0.0	-0.4	-0.3	-0.1	0.0	0.1
9	6.6	6.6	0.0	4.0	-0.1	-0.1	0.0	0.0	0.1
10	6.7	6.7	0.0	9.9	-0.1	-0.1	0.0	0.0	0.1
11	6.7	6.8	0.0	14.1	-0.1	0.0	0.0	0.1	0.1
12	6.8	6.8	0.0	15.0	0.0	0.0	0.0	0.0	0.0
13	6.9	6.8	0.0	16.9	-0.1	-0.1	0.0	0.0	0.0
14	6.9	4.8	-2.1	14.1	-2.2	-2.1	-2.1	-2.1	-2.0
15	6.9	4.7	-2.2	12.1	-2.3	-2.2	-2.2	-2.1	-2.1
16	6.9	4.7	-2.2	9.0	-2.3	-2.3	-2.2	-2.2	-2.1
17	6.9	4.7	-2.2	5.1	-2.3	-2.3	-2.2	-2.1	-2.1
18	6.8	4.7	-2.2	0.9	-2.3	-2.2	-2.2	-2.1	-2.1
19	6.8	6.5	-0.3	0.0	-0.4	-0.4	-0.3	-0.3	-0.2
20	7.3	7.4	0.1	0.0	-0.1	-0.1	0.1	0.2	0.3
21	7.6	7.7	0.1	0.0	0.0	0.0	0.1	0.1	0.2
22	7.4	7.5	0.1	0.0	0.0	0.1	0.1	0.2	0.2
23	4.7	4.7	0.0	0.0	-0.2	-0.1	0.0	0.1	0.2
24	Reference 4.2	Actual 4.2	Change in 0.0	Cooling 0.0	-0.2	-0.1	0.0	0.1	0.1
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	144	133	-11	101.0	-14	-13	-11	-9	-7

08/29/2007		Capacity Bidding			DA6 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	4.0	3.9	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.1
2	4.1	4.0	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.1
3	4.0	3.9	-0.1	0.0	-0.3	-0.2	-0.1	0.1	0.1
4	4.0	3.9	-0.1	0.0	-0.3	-0.2	-0.1	0.1	0.1
5	4.0	3.9	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.0
6	4.4	4.3	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.1
7	6.8	6.6	-0.2	0.0	-0.5	-0.4	-0.2	0.1	0.2
8	6.6	6.4	-0.1	0.9	-0.4	-0.3	-0.1	0.0	0.1
9	6.5	6.5	0.0	5.1	-0.2	-0.1	0.0	0.0	0.1
10	6.6	6.6	0.0	7.0	-0.1	-0.1	0.0	0.0	0.1
11	6.7	6.7	0.0	7.9	-0.1	0.0	0.0	0.0	0.1
12	6.8	6.8	0.0	9.9	0.0	0.0	0.0	0.0	0.0
13	6.8	6.9	0.1	12.1	0.0	0.0	0.1	0.1	0.1
14	6.9	6.8	0.0	9.0	-0.1	-0.1	0.0	0.0	0.0
15	6.8	4.6	-2.2	9.0	-2.3	-2.3	-2.2	-2.2	-2.1
16	6.8	4.6	-2.3	7.9	-2.4	-2.3	-2.3	-2.2	-2.2
17	6.8	4.5	-2.3	5.1	-2.4	-2.3	-2.3	-2.2	-2.2
18	6.8	4.5	-2.3	2.0	-2.4	-2.3	-2.3	-2.2	-2.2
19	6.8	6.4	-0.3	0.0	-0.4	-0.4	-0.3	-0.3	-0.2
20	7.3	7.5	0.2	0.0	0.0	0.1	0.2	0.4	0.5
21	7.6	7.5	0.0	0.0	-0.2	-0.1	0.0	0.0	0.1
22	7.4	7.4	0.0	0.0	-0.1	0.0	0.0	0.1	0.1
23	4.7	4.7	0.0	0.0	-0.2	-0.1	0.0	0.0	0.1
24	4.2	4.1	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.1
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use	Change in Energy Use (kWh)	Cooling Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	143	133	-10	76.0	10th	30th	50th	70th	90th
					-14	-12	-10	-8	-7

08/31/2007		Capacity Bidding DA6							
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Total Estimated Load Impact (mWh/hour)	Load Impact Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	4.2	4.1	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.1
2	4.3	4.2	0.0	0.0	-0.2	-0.2	0.0	0.1	0.2
3	4.2	4.2	0.0	0.0	-0.2	-0.1	0.0	0.1	0.2
4	4.1	4.1	0.0	0.0	-0.2	-0.1	0.0	0.1	0.2
5	4.2	4.2	0.0	0.0	-0.2	-0.1	0.0	0.1	0.1
6	4.6	4.5	0.0	0.0	-0.2	-0.1	0.0	0.1	0.1
7	6.9	6.9	0.0	0.0	-0.4	-0.3	0.0	0.2	0.3
8	6.8	6.7	-0.1	2.0	-0.3	-0.2	-0.1	0.1	0.2
9	6.8	6.7	-0.1	9.9	-0.2	-0.1	-0.1	0.0	0.0
10	6.8	6.8	0.0	13.0	-0.1	-0.1	0.0	0.0	0.0
11	6.9	6.9	0.0	16.9	-0.1	-0.1	0.0	0.0	0.0
12	7.0	7.0	0.0	13.0	0.0	0.0	0.0	0.0	0.0
13	7.0	7.0	-0.1	12.1	-0.1	-0.1	-0.1	-0.1	0.0
14	7.1	4.9	-2.2	12.1	-2.3	-2.3	-2.2	-2.2	-2.2
15	7.1	4.8	-2.3	13.0	-2.4	-2.4	-2.3	-2.3	-2.2
16	7.1	4.7	-2.3	12.1	-2.4	-2.4	-2.3	-2.3	-2.3
17	7.0	4.7	-2.4	9.9	-2.5	-2.4	-2.4	-2.3	-2.3
18	7.0	4.6	-2.4	9.0	-2.5	-2.4	-2.4	-2.3	-2.3
19	7.0	4.6	-2.4	3.1	-2.5	-2.5	-2.4	-2.3	-2.3
20	7.5	7.2	-0.3	2.0	-0.5	-0.4	-0.3	-0.2	-0.1
21	7.8	7.6	-0.1	2.0	-0.2	-0.2	-0.1	-0.1	0.0
22	7.6	7.5	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
23	4.9	4.9	0.0	0.0	-0.1	-0.1	0.0	0.1	0.2
24	4.4	4.3	-0.1	0.0	-0.2	-0.1	0.0	0.1	0.1
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use	Change in Energy Use (kWh)	Cooling Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	148	133	-15	130.1	10th	30th	50th	70th	90th
					-18	-17	-15	-13	-12

08/15/2007		Capacity Bidding			DO4 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1
2	1.4	1.4	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
3	1.3	1.3	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
4	1.3	1.3	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
5	1.3	1.3	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1
6	1.5	1.5	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.1
7	1.8	1.8	0.0	0.0	-0.2	-0.1	0.0	0.0	0.1
8	2.3	2.1	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.0
9	2.2	2.2	0.0	4.0	-0.1	-0.1	0.0	0.0	0.1
10	2.5	2.5	-0.1	7.0	-0.1	-0.1	-0.1	0.0	0.0
11	3.2	3.2	0.0	9.9	-0.1	-0.1	0.0	0.0	0.0
12	3.3	3.3	0.0	14.1	0.0	0.0	0.0	0.0	0.0
13	3.6	3.5	-0.1	12.1	-0.2	-0.1	-0.1	0.0	0.0
14	3.7	3.5	-0.2	9.9	-0.3	-0.2	-0.2	-0.1	0.0
15	4.0	3.5	-0.5	9.9	-0.7	-0.6	-0.5	-0.4	-0.4
16	3.7	3.2	-0.5	7.0	-0.7	-0.6	-0.5	-0.3	-0.3
17	3.7	3.2	-0.5	5.1	-0.6	-0.6	-0.5	-0.4	-0.3
18	3.8	3.3	-0.5	0.9	-0.7	-0.6	-0.5	-0.4	-0.3
19	3.5	3.2	-0.2	0.0	-0.4	-0.3	-0.2	-0.1	0.0
20	3.6	3.4	-0.2	0.0	-0.4	-0.3	-0.2	-0.1	-0.1
21	3.5	3.3	-0.2	0.0	-0.4	-0.4	-0.2	-0.1	-0.1
22	3.3	3.1	-0.2	0.0	-0.4	-0.3	-0.2	-0.1	-0.1
23	2.6	2.4	-0.2	0.0	-0.3	-0.3	-0.2	-0.1	-0.1
24	1.9	1.8	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.0
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use	Change in Energy Use (kWh)	Cooling Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	63	59	-4	80.0	10th	30th	50th	70th	90th
					-7	-6	-4	-2	-1

08/20/2007 Capacity Bidding DO4 Total Load Impact					Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	1.3	1.3	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
2	1.3	1.2	0.0	0.0	-0.2	-0.1	0.0	0.0	0.1
3	1.3	1.2	-0.1	0.0	-0.2	-0.1	-0.1	0.0	0.0
4	1.3	1.3	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1
5	1.5	1.4	-0.1	0.0	-0.2	-0.1	-0.1	0.0	0.1
6	1.8	1.8	0.0	0.0	-0.2	-0.1	0.0	0.1	0.1
7	2.2	2.1	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.0
8	2.3	2.1	-0.1	2.0	-0.3	-0.2	-0.1	-0.1	0.0
9	2.5	2.4	-0.1	6.0	-0.2	-0.1	-0.1	0.0	0.0
10	3.2	3.2	-0.1	9.9	-0.2	-0.1	-0.1	0.0	0.0
11	3.4	3.3	-0.1	12.1	-0.1	-0.1	-0.1	0.0	0.0
12	3.5	3.5	0.0	11.0	0.0	0.0	0.0	0.0	0.0
13	3.6	3.6	0.0	13.0	-0.1	0.0	0.0	0.1	0.1
14	3.6	3.6	0.0	16.0	-0.1	-0.1	0.0	0.1	0.1
15	3.6	3.4	-0.3	12.1	-0.4	-0.4	-0.3	-0.2	-0.1
16	3.6	3.3	-0.3	9.9	-0.5	-0.4	-0.3	-0.2	-0.1
17	3.7	3.3	-0.4	9.0	-0.5	-0.5	-0.4	-0.3	-0.2
18	3.7	3.4	-0.3	5.1	-0.5	-0.4	-0.3	-0.2	-0.2
19	3.6	3.6	0.0	0.0	-0.2	-0.1	0.0	0.1	0.2
20	3.5	3.5	0.1	0.0	-0.1	0.0	0.1	0.2	0.2
21	3.3	3.3	0.0	0.0	-0.2	-0.1	0.0	0.1	0.2
22	2.6	2.5	0.0	0.0	-0.2	-0.1	0.0	0.1	0.1
23	2.0	2.0	0.0	0.0	-0.1	-0.1	0.0	0.1	0.2
24	Reference 1.5	Actual 1.5	Change in 0.1	Cooling 0.0	-0.1	0.0	0.1	0.1	0.2
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	64	62	-2	106.1	10th	30th	50th	70th	90th
					-5	-4	-2	0	1



08/21/2007		Capacity Bidding			DO4 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	1.4	1.4	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1
2	1.4	1.4	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1
3	1.4	1.4	0.0	0.0	-0.1	0.0	0.0	0.1	0.1
4	1.4	1.5	0.1	0.0	0.0	0.0	0.1	0.1	0.1
5	1.6	1.5	-0.1	0.0	-0.2	-0.1	-0.1	0.0	0.1
6	1.9	1.7	-0.2	0.0	-0.3	-0.3	-0.2	-0.1	0.0
7	2.3	2.2	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.1
8	2.4	2.3	0.0	0.0	-0.2	-0.1	0.0	0.0	0.1
9	2.6	2.5	0.0	4.0	-0.1	-0.1	0.0	0.0	0.1
10	3.3	3.2	-0.1	9.9	-0.2	-0.1	-0.1	0.0	0.0
11	3.5	3.5	0.0	14.1	0.0	0.0	0.0	0.1	0.1
12	3.6	3.6	0.0	15.0	0.0	0.0	0.0	0.0	0.0
13	3.7	3.8	0.0	16.9	0.0	0.0	0.0	0.1	0.1
14	3.7	3.8	0.0	14.1	-0.1	0.0	0.0	0.1	0.1
15	3.7	3.2	-0.5	12.1	-0.7	-0.6	-0.5	-0.4	-0.4
16	3.7	3.2	-0.5	9.0	-0.7	-0.6	-0.5	-0.4	-0.3
17	3.8	3.3	-0.5	5.1	-0.6	-0.6	-0.5	-0.4	-0.3
18	3.8	3.3	-0.5	0.9	-0.6	-0.6	-0.5	-0.4	-0.3
19	3.7	3.6	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.1
20	3.6	3.5	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.1
21	3.4	3.3	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.0
22	2.7	2.5	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.0
23	2.0	2.0	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.1
24	Reference 1.5	Actual 1.5	Change in 0.0	Cooling 0.0	-0.2	-0.2	-0.1	0.0	0.1
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	66	63	-3	101.0	-6	-5	-3	-1	0

08/28/2007		Capacity Bidding			DO4 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	1.5	1.5	0.0	0.0	-0.2	-0.1	0.0	0.0	0.1
2	1.5	1.4	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.0
3	1.5	1.4	-0.1	0.0	-0.2	-0.1	-0.1	0.0	0.0
4	1.5	1.6	0.0	0.0	0.0	0.0	0.0	0.1	0.1
5	1.7	1.7	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
6	2.1	1.9	-0.2	0.0	-0.3	-0.3	-0.2	-0.1	0.0
7	2.5	2.3	-0.2	0.0	-0.4	-0.3	-0.2	-0.1	-0.1
8	2.6	2.3	-0.2	0.0	-0.4	-0.3	-0.2	-0.2	-0.1
9	2.8	2.7	-0.1	3.1	-0.2	-0.2	-0.1	-0.1	0.0
10	3.7	3.5	-0.1	7.0	-0.2	-0.2	-0.1	-0.1	-0.1
11	3.8	3.7	-0.1	9.0	-0.2	-0.1	-0.1	-0.1	-0.1
12	4.0	4.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0
13	4.1	4.2	0.1	9.0	0.0	0.0	0.1	0.1	0.2
14	4.1	4.1	0.1	9.0	0.0	0.0	0.1	0.1	0.2
15	4.1	3.7	-0.4	11.0	-0.5	-0.5	-0.4	-0.3	-0.2
16	4.1	3.9	-0.2	7.0	-0.4	-0.4	-0.2	-0.1	0.0
17	4.1	3.9	-0.2	5.1	-0.3	-0.3	-0.2	-0.1	0.0
18	4.1	4.1	0.0	0.0	-0.1	-0.1	0.0	0.1	0.2
19	4.0	4.0	0.0	0.0	-0.2	-0.1	0.0	0.1	0.2
20	3.9	3.9	0.0	0.0	-0.2	-0.1	0.0	0.1	0.2
21	3.7	3.7	0.0	0.0	-0.2	-0.1	0.0	0.1	0.1
22	2.9	2.8	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.1
23	2.2	2.2	0.0	0.0	-0.1	-0.1	0.0	0.1	0.2
24	1.7	1.6	-0.1	0.0	-0.2	-0.1	-0.1	0.0	0.1
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use	Change in Energy Use (kWh)	Cooling Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	72	70	-2	69.3	10th	30th	50th	70th	90th
					-5	-4	-2	0	1

08/29/2007 Capacity Bidding DO4 Total Load Impact									
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	1.6	1.6	0.0	0.0	-0.2	-0.1	0.0	0.0	0.1
2	1.6	1.5	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.1
3	1.6	1.6	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1
4	1.6	1.6	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1
5	1.8	1.7	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.0
6	2.2	2.0	-0.2	0.0	-0.4	-0.3	-0.2	-0.1	0.0
7	2.6	2.6	0.0	0.0	-0.2	-0.1	0.0	0.1	0.1
8	2.7	2.8	0.1	0.9	0.0	0.0	0.1	0.2	0.2
9	2.9	3.0	0.0	5.1	-0.1	-0.1	0.0	0.1	0.1
10	3.8	3.8	0.0	7.0	-0.1	-0.1	0.0	0.0	0.1
11	4.0	4.1	0.1	7.9	0.0	0.1	0.1	0.1	0.2
12	4.2	4.2	0.0	9.9	0.0	0.0	0.0	0.0	0.0
13	4.3	4.3	0.0	12.1	-0.1	-0.1	0.0	0.0	0.0
14	4.3	4.2	-0.1	9.0	-0.2	-0.2	-0.1	0.0	0.0
15	4.3	3.9	-0.5	9.0	-0.7	-0.6	-0.5	-0.4	-0.3
16	4.4	3.5	-0.9	7.9	-1.2	-1.1	-0.9	-0.8	-0.7
17	4.4	3.5	-0.9	5.1	-1.1	-1.0	-0.9	-0.8	-0.8
18	4.4	3.7	-0.7	2.0	-0.9	-0.8	-0.7	-0.6	-0.5
19	4.3	4.2	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.1
20	4.1	4.0	-0.1	0.0	-0.3	-0.3	-0.1	0.0	0.0
21	4.0	3.8	-0.1	0.0	-0.3	-0.2	-0.1	0.0	0.1
22	3.1	2.9	-0.2	0.0	-0.4	-0.3	-0.2	-0.1	-0.1
23	2.4	2.3	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.1
24	1.8	1.7	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.1
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use	Change in Energy Use (kWh)	Cooling Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	76	72	-4	76.0	10th	30th	50th	70th	90th
					-8	-6	-4	-2	-1

08/30/2007		Capacity Bidding			DO4 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	1.5	1.6	0.1	0.0	0.0	0.0	0.1	0.1	0.2
2	1.5	1.5	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1
3	1.5	1.5	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1
4	1.5	1.5	0.0	0.0	-0.1	0.0	0.0	0.1	0.1
5	1.7	1.7	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
6	2.1	2.1	0.0	0.0	-0.1	-0.1	0.0	0.1	0.2
7	2.5	2.6	0.2	0.0	0.0	0.1	0.2	0.3	0.3
8	2.6	2.8	0.2	0.0	0.1	0.2	0.2	0.3	0.4
9	2.8	2.9	0.1	5.1	0.0	0.0	0.1	0.1	0.2
10	3.7	3.5	-0.1	9.9	-0.2	-0.2	-0.1	-0.1	-0.1
11	3.9	3.8	-0.1	11.0	-0.1	-0.1	-0.1	0.0	0.0
12	4.0	4.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0
13	4.1	4.1	0.1	14.1	0.0	0.0	0.1	0.1	0.1
14	4.1	4.2	0.1	16.9	0.0	0.0	0.1	0.2	0.2
15	4.1	4.0	-0.1	9.9	-0.3	-0.2	-0.1	0.0	0.1
16	4.1	3.9	-0.2	6.0	-0.4	-0.3	-0.2	0.0	0.1
17	4.1	3.8	-0.3	7.0	-0.5	-0.4	-0.3	-0.3	-0.2
18	4.1	4.2	0.2	4.0	0.0	0.1	0.2	0.3	0.3
19	4.0	4.3	0.3	0.9	0.2	0.2	0.3	0.5	0.5
20	3.8	4.1	0.3	0.0	0.1	0.2	0.3	0.4	0.4
21	3.7	3.9	0.2	0.0	0.1	0.1	0.2	0.3	0.4
22	2.9	3.0	0.1	0.0	0.0	0.1	0.1	0.2	0.3
23	2.2	2.4	0.2	0.0	0.0	0.1	0.2	0.3	0.3
24	1.6	1.7	0.0	0.0	-0.1	-0.1	0.0	0.1	0.2
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use	Change in Energy Use (kWh)	Average Cooling Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	72	73	1	95.8	10th	30th	50th	70th	90th
					-2	-1	1	3	4

08/31/2007		Capacity Bidding			DO4 Total Load Impact				
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	1.8	1.6	-0.2	0.0	-0.3	-0.3	-0.2	-0.1	-0.1
2	1.8	1.6	-0.2	0.0	-0.3	-0.3	-0.2	-0.1	-0.1
3	1.8	1.5	-0.2	0.0	-0.4	-0.3	-0.2	-0.2	-0.1
4	1.8	1.5	-0.2	0.0	-0.3	-0.3	-0.2	-0.2	-0.1
5	2.0	1.7	-0.3	0.0	-0.4	-0.4	-0.3	-0.2	-0.2
6	2.4	2.1	-0.3	0.0	-0.5	-0.4	-0.3	-0.2	-0.1
7	2.9	2.7	-0.3	0.0	-0.4	-0.4	-0.3	-0.2	-0.1
8	3.0	2.8	-0.3	2.0	-0.4	-0.3	-0.3	-0.2	-0.1
9	3.3	3.1	-0.2	9.9	-0.4	-0.3	-0.2	-0.2	-0.1
10	4.3	4.2	-0.2	13.0	-0.2	-0.2	-0.2	-0.1	-0.1
11	4.5	4.4	-0.1	16.9	-0.2	-0.2	-0.1	-0.1	-0.1
12	4.7	4.7	0.0	13.0	0.0	0.0	0.0	0.0	0.0
13	4.8	4.8	0.0	12.1	-0.1	-0.1	0.0	0.0	0.0
14	4.8	4.8	0.0	12.1	-0.1	-0.1	0.0	0.0	0.1
15	4.8	4.3	-0.5	13.0	-0.6	-0.6	-0.5	-0.3	-0.3
16	4.8	4.3	-0.5	12.1	-0.7	-0.6	-0.5	-0.3	-0.2
17	4.8	4.5	-0.3	9.9	-0.5	-0.4	-0.3	-0.2	-0.1
18	4.8	4.5	-0.3	9.0	-0.4	-0.4	-0.3	-0.2	-0.1
19	4.7	4.4	-0.3	3.1	-0.5	-0.4	-0.3	-0.2	-0.1
20	4.5	4.2	-0.2	2.0	-0.4	-0.4	-0.2	-0.1	-0.1
21	4.3	4.0	-0.3	2.0	-0.5	-0.4	-0.3	-0.2	-0.1
22	3.4	3.2	-0.2	0.0	-0.4	-0.3	-0.2	-0.1	-0.1
23	2.6	2.6	-0.1	0.0	-0.2	-0.1	-0.1	0.0	0.1
24	1.9	1.9	0.0	0.0	-0.2	-0.1	0.0	0.1	0.1
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use	Change in Energy Use (kWh)	Cooling Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	84	79	-5	130.1	10th	30th	50th	70th	90th
					-9	-7	-5	-3	-2

07/03/2007 Capacity Bidding LargeDO4 Total Load Impact									
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	2.7	2.7	0.0	0.0	-6.9	-4.3	0.0	4.3	7.0
2	2.6	2.6	0.0	0.0	-6.9	-4.3	0.0	4.2	6.8
3	1.5	2.5	1.0	0.0	-4.3	-2.3	1.0	4.3	6.3
4	0.9	2.6	1.7	0.0	-4.2	-2.0	1.7	5.3	7.6
5	0.9	2.7	1.7	0.0	-4.2	-2.0	1.7	5.4	7.7
6	1.2	3.1	1.9	0.0	-4.0	-1.7	1.9	5.5	7.8
7	1.5	3.6	2.1	0.0	-2.6	-0.8	2.1	5.0	6.8
8	2.9	4.5	1.6	0.0	-3.3	-1.4	1.6	4.6	6.4
9	4.2	5.0	0.9	4.0	-4.9	-2.7	0.9	4.5	6.6
10	6.2	5.0	-1.2	9.0	-5.8	-4.0	-1.2	1.7	3.4
11	6.9	6.3	-0.6	6.0	-2.6	-1.8	-0.6	0.7	1.4
12	6.1	6.1	0.0	7.0	0.0	0.0	0.0	0.0	0.0
13	6.9	6.2	-0.6	7.0	-5.4	-3.6	-0.6	2.3	4.1
14	8.7	6.0	-2.6	7.0	-9.7	-7.0	-2.6	1.7	4.4
15	9.0	3.8	-5.1	5.1	-11.9	-9.4	-5.1	-0.9	1.6
16	11.1	3.5	-7.6	5.1	-16.5	-13.1	-7.6	-2.0	1.4
17	9.0	3.0	-6.0	0.9	-14.1	-11.0	-6.0	-0.9	2.1
18	6.9	2.4	-4.5	0.0	-11.7	-9.0	-4.5	0.0	2.7
19	9.3	2.4	-6.9	0.0	-17.4	-13.4	-6.9	-0.4	3.6
20	9.8	3.0	-6.9	0.0	-17.7	-13.6	-6.9	-0.2	3.9
21	10.4	3.0	-7.3	0.0	-17.7	-13.7	-7.3	-0.9	3.0
22	9.7	2.9	-6.9	0.0	-16.0	-12.5	-6.9	-1.3	2.2
23	10.4	2.2	-8.3	0.0	-16.1	-13.1	-8.3	-3.4	-0.4
24	12.3	1.6	-10.7	0.0	-17.0	-14.6	-10.7	-6.8	-4.4
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	151	87	-64	51.1	-221	-161	-64	33	92

07/26/2007 Capacity Bidding Large DO4 Total Load Impact										
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles					
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile	
1	5.9	6.5	0.6	0.0	-6.3	-3.7	0.6	4.9	7.5	
2	5.8	6.3	0.5	0.0	-6.4	-3.8	0.5	4.8	7.4	
3	10.4	6.3	-4.2	0.0	-9.5	-7.5	-4.2	-0.9	1.1	
4	11.5	6.2	-5.3	0.0	-11.2	-8.9	-5.3	-1.6	0.6	
5	11.8	6.7	-5.1	0.0	-11.0	-8.8	-5.1	-1.4	0.9	
6	12.1	6.9	-5.2	0.0	-11.0	-8.8	-5.2	-1.5	0.7	
7	13.5	9.2	-4.4	0.0	-9.0	-7.3	-4.4	-1.5	0.3	
8	14.5	11.7	-2.8	0.0	-7.7	-5.8	-2.8	0.2	2.0	
9	15.7	14.6	-1.0	5.1	-6.8	-4.6	-1.0	2.5	4.7	
10	18.8	16.7	-2.2	9.0	-6.8	-5.0	-2.2	0.7	2.4	
11	19.5	18.7	-0.8	11.0	-2.8	-2.0	-0.8	0.4	1.2	
12	19.0	19.0	0.0	13.0	0.0	0.0	0.0	0.0	0.0	
13	15.0	19.0	4.1	9.9	-0.7	1.1	4.1	7.0	8.8	
14	13.3	18.2	4.9	6.0	-2.1	0.6	4.9	9.3	11.9	
15	12.8	10.7	-2.1	6.0	-8.9	-6.3	-2.1	2.0	4.6	
16	11.9	9.7	-2.3	5.1	-11.2	-7.8	-2.3	3.3	6.7	
17	8.4	8.4	0.1	5.1	-8.0	-4.9	0.1	5.1	8.2	
18	6.5	6.8	0.3	3.1	-6.9	-4.2	0.3	4.8	7.5	
19	6.0	11.8	5.7	0.0	-4.8	-0.8	5.7	12.3	16.2	
20	6.0	12.1	6.0	0.0	-4.8	-0.7	6.0	12.7	16.8	
21	6.2	12.5	6.3	0.0	-4.0	-0.1	6.3	12.7	16.7	
22	5.7	10.8	5.1	0.0	-4.0	-0.5	5.1	10.7	14.1	
23	3.5	9.1	5.6	0.0	-2.3	0.7	5.6	10.5	13.5	
24	2.9	8.3	5.5	0.0	-0.8	1.6	5.5	9.4	11.8	
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles					
	257	266	9	73.1	10th	30th	50th	70th	90th	
					-147	-88	9	106	166	

07/27/2007 Capacity Bidding Large DO4 Total Load Impact									
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	6.2	7.8	1.5	0.0	-5.4	-2.8	1.5	5.9	8.5
2	6.2	7.7	1.6	0.0	-5.4	-2.7	1.6	5.9	8.5
3	11.4	7.7	-3.7	0.0	-9.1	-7.0	-3.7	-0.4	1.7
4	12.6	8.7	-3.9	0.0	-9.8	-7.6	-3.9	-0.2	2.1
5	12.9	9.6	-3.4	0.0	-9.4	-7.1	-3.4	0.3	2.6
6	13.2	10.4	-2.9	0.0	-8.8	-6.6	-2.9	0.8	3.0
7	14.9	12.3	-2.6	0.0	-7.3	-5.5	-2.6	0.3	2.1
8	15.8	14.0	-1.8	0.0	-6.7	-4.8	-1.8	1.2	3.1
9	16.9	16.9	0.0	6.0	-5.8	-3.6	0.0	3.6	5.8
10	20.3	18.8	-1.5	11.0	-6.1	-4.4	-1.5	1.4	3.1
11	21.1	20.4	-0.6	13.0	-2.6	-1.9	-0.6	0.6	1.4
12	20.5	20.5	0.0	16.0	0.0	0.0	0.0	0.0	0.0
13	16.0	23.9	7.9	7.9	3.0	4.9	7.9	10.8	12.7
14	14.0	21.7	7.7	9.9	0.6	3.3	7.7	12.1	14.8
15	13.5	19.5	6.0	9.0	-0.8	1.7	6.0	10.2	12.8
16	12.5	20.1	7.7	6.0	-1.4	2.1	7.7	13.2	16.7
17	8.7	18.7	10.0	6.0	1.8	4.9	10.0	15.1	18.2
18	6.8	14.5	7.7	3.1	0.4	3.2	7.7	12.2	15.0
19	6.4	12.8	6.4	0.0	-4.2	-0.2	6.4	13.0	17.0
20	6.5	11.4	4.9	0.0	-6.0	-1.8	4.9	11.7	15.8
21	6.5	12.3	5.7	0.0	-4.7	-0.8	5.7	12.2	16.2
22	6.1	11.7	5.6	0.0	-3.6	-0.1	5.6	11.3	14.7
23	3.7	10.4	6.7	0.0	-1.2	1.8	6.7	11.6	14.6
24	3.0	10.0	7.0	0.0	0.6	3.0	7.0	10.9	13.3
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
	276	342	66	87.9	10th	30th	50th	70th	90th
					-92	-32	66	164	224



08/15/2007 Capacity Bidding Large DO4 Total Load Impact										
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles					
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile	
1	16.4	20.7	4.3	0.0	-3.0	-0.2	4.3	8.9	11.7	
2	15.8	20.4	4.6	0.0	-2.7	0.1	4.6	9.1	11.9	
3	21.3	20.3	-1.0	0.0	-6.6	-4.4	-1.0	2.5	4.6	
4	22.0	20.3	-1.7	0.0	-7.9	-5.5	-1.7	2.2	4.5	
5	22.3	20.8	-1.4	0.0	-7.8	-5.4	-1.4	2.5	4.9	
6	22.6	21.8	-0.8	0.0	-7.0	-4.6	-0.8	3.1	5.4	
7	24.8	24.0	-0.8	0.0	-5.8	-3.9	-0.8	2.2	4.1	
8	26.9	25.7	-1.2	0.0	-6.4	-4.4	-1.2	1.9	3.9	
9	30.2	28.4	-1.8	4.0	-7.9	-5.6	-1.8	2.0	4.3	
10	33.7	30.5	-3.3	7.0	-8.1	-6.3	-3.3	-0.2	1.6	
11	33.9	32.0	-2.0	9.9	-4.1	-3.3	-2.0	-0.7	0.1	
12	32.5	32.5	0.0	14.1	0.0	0.0	0.0	0.0	0.0	
13	27.8	32.2	4.3	12.1	-0.7	1.2	4.3	7.5	9.4	
14	25.4	29.5	4.2	9.9	-3.3	-0.4	4.2	8.8	11.6	
15	22.4	24.4	2.0	9.9	-5.2	-2.5	2.0	6.4	9.1	
16	18.0	23.7	5.7	7.0	-3.8	-0.2	5.7	11.5	15.1	
17	15.7	22.2	6.5	5.1	-2.1	1.2	6.5	11.8	15.1	
18	13.4	20.5	7.1	0.9	-0.6	2.3	7.1	11.8	14.7	
19	14.9	23.9	9.1	0.0	-2.0	2.2	9.1	16.0	20.2	
20	14.5	26.5	12.0	0.0	0.6	5.0	12.0	19.1	23.5	
21	13.6	27.7	14.1	0.0	3.1	7.3	14.1	20.8	25.0	
22	12.9	26.4	13.5	0.0	3.9	7.5	13.5	19.4	23.1	
23	10.7	24.5	13.8	0.0	5.5	8.6	13.8	18.9	22.1	
24	9.1	23.5	14.4	0.0	7.8	10.3	14.4	18.5	21.0	
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles					
					10th	30th	50th	70th	90th	
	501	602	102	80.0	-64	-1	102	204	267	

08/20/2007 Capacity Bidding LargeDO4 Total Load Impact									
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	7.3	9.5	2.3	0.0	-4.7	-2.1	2.3	6.6	9.3
2	7.0	9.2	2.1	0.0	-4.8	-2.2	2.1	6.4	9.1
3	10.1	8.9	-1.2	0.0	-6.6	-4.5	-1.2	2.1	4.1
4	10.4	9.1	-1.3	0.0	-7.3	-5.0	-1.3	2.4	4.6
5	10.5	9.8	-0.7	0.0	-6.7	-4.4	-0.7	3.0	5.3
6	10.9	10.4	-0.5	0.0	-6.5	-4.2	-0.5	3.1	5.4
7	14.0	11.8	-2.2	0.0	-6.9	-5.1	-2.2	0.7	2.5
8	14.9	13.4	-1.5	2.0	-6.4	-4.5	-1.5	1.5	3.4
9	18.5	15.8	-2.6	6.0	-8.4	-6.2	-2.6	1.0	3.2
10	20.7	18.4	-2.3	9.9	-7.0	-5.2	-2.3	0.5	2.3
11	22.7	20.9	-1.8	12.1	-3.8	-3.1	-1.8	-0.6	0.2
12	22.6	22.6	0.0	11.0	0.0	0.0	0.0	0.0	0.0
13	19.4	22.4	3.1	13.0	-1.8	0.1	3.1	6.1	7.9
14	18.3	18.4	0.1	16.0	-7.0	-4.3	0.1	4.5	7.2
15	16.9	14.5	-2.4	12.1	-9.2	-6.6	-2.4	1.9	4.5
16	15.6	13.7	-2.0	9.9	-11.0	-7.6	-2.0	3.6	7.0
17	14.1	12.5	-1.6	9.0	-9.8	-6.7	-1.6	3.5	6.6
18	12.6	10.9	-1.7	5.1	-8.9	-6.2	-1.7	2.8	5.6
19	12.9	14.3	1.5	0.0	-9.1	-5.1	1.5	8.0	12.1
20	12.3	15.9	3.5	0.0	-7.4	-3.2	3.5	10.3	14.4
21	11.7	15.8	4.1	0.0	-6.4	-2.4	4.1	10.5	14.5
22	10.9	14.3	3.3	0.0	-5.8	-2.3	3.3	9.0	12.5
23	9.6	12.1	2.5	0.0	-5.4	-2.4	2.5	7.5	10.5
24	8.3	11.1	2.8	0.0	-3.5	-1.1	2.8	6.8	9.2
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	332	336	3	106.1	-154	-94	3	101	161

08/21/2007 Capacity Bidding LargeDO4 Total Load Impact										
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles					
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile	
1	7.4	10.2	2.8	0.0	-4.4	-1.7	2.8	7.2	9.9	
2	7.1	9.8	2.7	0.0	-4.4	-1.7	2.7	7.1	9.8	
3	10.5	9.6	-0.9	0.0	-6.4	-4.3	-0.9	2.5	4.6	
4	10.6	9.6	-1.1	0.0	-7.1	-4.8	-1.1	2.7	5.0	
5	11.0	10.2	-0.8	0.0	-7.0	-4.6	-0.8	3.0	5.4	
6	11.4	10.8	-0.6	0.0	-6.6	-4.3	-0.6	3.2	5.5	
7	14.0	13.1	-1.0	0.0	-5.8	-3.9	-1.0	2.0	3.9	
8	15.2	14.7	-0.5	0.0	-5.5	-3.6	-0.5	2.6	4.5	
9	17.6	17.8	0.2	4.0	-5.8	-3.5	0.2	3.9	6.1	
10	20.4	19.1	-1.3	9.9	-6.0	-4.2	-1.3	1.7	3.5	
11	22.9	21.6	-1.3	14.1	-3.4	-2.6	-1.3	-0.1	0.7	
12	22.2	22.2	0.0	15.0	0.0	0.0	0.0	0.0	0.0	
13	19.2	22.4	3.2	16.9	-1.7	0.2	3.2	6.3	8.1	
14	18.9	20.0	1.1	14.1	-6.2	-3.4	1.1	5.6	8.4	
15	18.0	14.2	-3.8	12.1	-10.8	-8.1	-3.8	0.6	3.2	
16	18.8	13.4	-5.4	9.0	-14.6	-11.1	-5.4	0.3	3.8	
17	16.5	12.2	-4.3	5.1	-12.7	-9.5	-4.3	0.9	4.1	
18	13.7	10.4	-3.3	0.9	-10.8	-8.0	-3.3	1.3	4.1	
19	17.4	13.5	-3.8	0.0	-14.7	-10.6	-3.8	2.9	7.0	
20	17.6	13.8	-3.9	0.0	-15.0	-10.8	-3.9	3.1	7.3	
21	17.5	13.3	-4.2	0.0	-14.9	-10.9	-4.2	2.4	6.5	
22	16.5	12.9	-3.7	0.0	-13.0	-9.5	-3.7	2.2	5.7	
23	17.1	11.7	-5.5	0.0	-13.6	-10.5	-5.5	-0.4	2.7	
24	17.8	10.9	-6.9	0.0	-13.4	-11.0	-6.9	-2.9	-0.5	
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles					
					10th	30th	50th	70th	90th	
	380	337	-42	101.0	-204	-142	-42	58	119	

08/28/2007 Capacity Bidding LargeDO4 Total Load Impact									
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	6.8	8.9	2.2	0.0	-4.9	-2.2	2.2	6.6	9.3
2	6.4	8.6	2.2	0.0	-4.9	-2.2	2.2	6.5	9.2
3	8.6	8.3	-0.3	0.0	-5.7	-3.6	-0.3	3.1	5.1
4	8.4	8.4	0.0	0.0	-6.0	-3.7	0.0	3.8	6.0
5	8.7	8.9	0.2	0.0	-5.9	-3.6	0.2	4.0	6.3
6	9.0	9.4	0.4	0.0	-5.6	-3.4	0.4	4.1	6.4
7	11.4	10.7	-0.6	0.0	-5.4	-3.6	-0.6	2.3	4.1
8	12.7	10.2	-2.5	0.0	-7.5	-5.6	-2.5	0.6	2.5
9	15.1	11.3	-3.8	3.1	-9.7	-7.5	-3.8	-0.1	2.1
10	17.5	13.5	-3.9	7.0	-8.6	-6.8	-3.9	-1.0	0.8
11	19.8	15.5	-4.4	9.0	-6.4	-5.6	-4.4	-3.1	-2.3
12	19.1	19.1	0.0	9.0	0.0	0.0	0.0	0.0	0.0
13	17.1	20.0	2.8	9.0	-2.0	-0.2	2.8	5.9	7.7
14	17.4	16.2	-1.2	9.0	-8.4	-5.7	-1.2	3.3	6.0
15	16.7	13.9	-2.8	11.0	-9.7	-7.1	-2.8	1.5	4.1
16	17.7	11.9	-5.8	7.0	-14.9	-11.5	-5.8	-0.1	3.3
17	15.7	11.0	-4.8	5.1	-13.1	-9.9	-4.8	0.4	3.5
18	13.1	14.2	1.0	0.0	-6.4	-3.5	1.0	5.6	8.4
19	16.6	13.8	-2.8	0.0	-13.6	-9.5	-2.8	3.8	7.9
20	16.8	13.2	-3.6	0.0	-14.6	-10.5	-3.6	3.2	7.4
21	16.8	12.7	-4.0	0.0	-14.6	-10.6	-4.0	2.5	6.5
22	15.7	12.0	-3.7	0.0	-13.0	-9.4	-3.7	2.1	5.6
23	16.5	10.5	-6.0	0.0	-14.0	-11.0	-6.0	-1.0	2.0
24	17.4	9.7	-7.7	0.0	-14.2	-11.7	-7.7	-3.8	-1.3
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	341	292	-49	69.3	-209	-148	-49	50	111

08/29/2007 Capacity Bidding LargeDO4 Total Load Impact										
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles					
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile	
1	13.7	9.2	-4.6	0.0	-11.6	-8.9	-4.6	-0.3	2.4	
2	13.2	8.8	-4.4	0.0	-11.3	-8.7	-4.4	-0.1	2.6	
3	13.9	8.3	-5.7	0.0	-11.0	-9.0	-5.7	-2.3	-0.3	
4	13.5	6.7	-6.8	0.0	-12.7	-10.5	-6.8	-3.1	-0.9	
5	13.5	7.1	-6.4	0.0	-12.4	-10.1	-6.4	-2.7	-0.4	
6	13.7	7.6	-6.1	0.0	-12.0	-9.8	-6.1	-2.4	-0.2	
7	14.8	9.2	-5.6	0.0	-10.3	-8.5	-5.6	-2.7	-0.9	
8	17.2	10.3	-6.9	0.9	-11.8	-10.0	-6.9	-3.9	-2.0	
9	20.7	12.7	-8.0	5.1	-13.8	-11.6	-8.0	-4.4	-2.2	
10	22.6	16.9	-5.7	7.0	-10.4	-8.6	-5.7	-2.9	-1.1	
11	22.2	18.9	-3.3	7.9	-5.3	-4.5	-3.3	-2.1	-1.3	
12	20.8	20.8	0.0	9.9	0.0	0.0	0.0	0.0	0.0	
13	20.0	20.8	0.9	12.1	-4.0	-2.1	0.9	3.8	5.7	
14	19.7	16.3	-3.4	9.0	-10.5	-7.8	-3.4	1.0	3.7	
15	17.5	14.6	-2.9	9.0	-9.8	-7.2	-2.9	1.3	3.9	
16	13.8	12.4	-1.4	7.9	-10.5	-7.0	-1.4	4.1	7.6	
17	12.9	11.3	-1.5	5.1	-9.7	-6.6	-1.5	3.5	6.7	
18	11.1	9.4	-1.7	2.0	-9.0	-6.2	-1.7	2.8	5.6	
19	11.8	12.5	0.7	0.0	-9.9	-5.9	0.7	7.3	11.3	
20	11.4	13.7	2.3	0.0	-8.6	-4.5	2.3	9.0	13.2	
21	10.8	13.3	2.5	0.0	-8.0	-4.0	2.5	9.0	12.9	
22	9.9	13.2	3.3	0.0	-5.9	-2.4	3.3	8.9	12.4	
23	8.6	11.4	2.9	0.0	-5.0	-2.0	2.9	7.8	10.8	
24	7.7	10.6	2.9	0.0	-3.4	-1.0	2.9	6.8	9.2	
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles					
	355	296	-59	76.0	10th	30th	50th	70th	90th	
					-217	-157	-59	39	99	

08/30/2007 Capacity Bidding LargeDO4 Total Load Impact									
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	7.6	9.9	2.3	0.0	-4.4	-1.9	2.3	6.5	9.0
2	7.3	9.5	2.2	0.0	-4.5	-2.0	2.2	6.3	8.9
3	11.0	8.4	-2.5	0.0	-7.7	-5.7	-2.5	0.7	2.6
4	11.5	7.6	-3.8	0.0	-9.6	-7.4	-3.8	-0.3	1.9
5	11.7	8.1	-3.5	0.0	-9.3	-7.1	-3.5	0.0	2.3
6	11.9	8.8	-3.2	0.0	-8.9	-6.7	-3.2	0.4	2.5
7	14.5	10.8	-3.6	0.0	-8.2	-6.4	-3.6	-0.8	0.9
8	15.5	13.6	-1.9	0.0	-6.7	-4.9	-1.9	1.0	2.8
9	18.1	16.3	-1.8	5.1	-7.4	-5.2	-1.8	1.7	3.8
10	20.1	18.0	-2.1	9.9	-6.6	-4.9	-2.1	0.7	2.3
11	21.9	20.5	-1.4	11.0	-3.3	-2.6	-1.4	-0.2	0.5
12	21.5	21.5	0.0	11.0	0.0	0.0	0.0	0.0	0.0
13	18.1	21.5	3.4	14.1	-1.3	0.5	3.4	6.2	8.0
14	16.9	18.9	2.0	16.9	-4.9	-2.3	2.0	6.2	8.8
15	16.1	15.1	-1.0	9.9	-7.6	-5.1	-1.0	3.1	5.6
16	14.8	15.8	1.0	6.0	-7.7	-4.4	1.0	6.4	9.7
17	12.5	16.6	4.1	7.0	-3.8	-0.8	4.1	9.0	12.0
18	10.7	14.2	3.5	4.0	-3.5	-0.8	3.5	7.9	10.5
19	10.6	13.3	2.6	0.9	-7.6	-3.7	2.6	9.0	12.8
20	10.2	14.8	4.6	0.0	-5.9	-1.9	4.6	11.1	15.1
21	10.1	14.3	4.2	0.0	-5.9	-2.0	4.2	10.4	14.3
22	9.0	13.4	4.4	0.0	-4.4	-1.1	4.4	9.9	13.2
23	7.7	11.7	4.0	0.0	-3.6	-0.7	4.0	8.7	11.6
24	6.7	11.0	4.3	0.0	-1.8	0.5	4.3	8.0	10.4
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles				
					10th	30th	50th	70th	90th
	316	334	18	95.8	-134	-77	18	112	170

08/31/2007		Capacity Bidding LargeDO4 Total Load Impact								
Hour Ending	Estimated Reference Load (mWh)	Actual Event Day Load (mWh)	Estimated Load Impact (mWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/hr) - Percentiles					
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile	
1	7.4	10.3	2.9	0.0	-3.8	-1.2	2.9	7.1	9.7	
2	7.1	9.8	2.7	0.0	-3.9	-1.4	2.7	6.9	9.4	
3	10.4	10.0	-0.4	0.0	-5.6	-3.6	-0.4	2.7	4.7	
4	10.8	9.7	-1.1	0.0	-6.9	-4.7	-1.1	2.4	4.6	
5	11.0	10.1	-0.9	0.0	-6.7	-4.5	-0.9	2.7	4.9	
6	11.3	11.1	-0.2	0.0	-5.9	-3.7	-0.2	3.4	5.5	
7	13.7	13.8	0.1	0.0	-4.4	-2.7	0.1	2.9	4.6	
8	14.8	14.8	0.0	2.0	-4.7	-2.9	0.0	2.9	4.7	
9	17.4	16.9	-0.5	9.9	-6.1	-4.0	-0.5	3.0	5.1	
10	19.3	18.4	-0.9	13.0	-5.4	-3.7	-0.9	1.8	3.5	
11	21.1	20.0	-1.1	16.9	-3.0	-2.3	-1.1	0.1	0.8	
12	20.6	20.6	0.0	13.0	0.0	0.0	0.0	0.0	0.0	
13	17.6	20.1	2.6	12.1	-2.1	-0.3	2.6	5.4	7.2	
14	16.5	15.8	-0.7	12.1	-7.5	-4.9	-0.7	3.5	6.1	
15	15.8	13.8	-2.0	13.0	-8.6	-6.1	-2.0	2.1	4.6	
16	14.5	13.1	-1.4	12.1	-10.1	-6.8	-1.4	4.0	7.3	
17	12.3	15.1	2.8	9.9	-5.1	-2.1	2.8	7.6	10.6	
18	10.6	14.5	4.0	9.0	-3.0	-0.4	4.0	8.3	11.0	
19	10.4	11.7	1.3	3.1	-8.9	-5.0	1.3	7.6	11.5	
20	10.0	12.5	2.5	2.0	-8.0	-4.0	2.5	9.0	13.0	
21	9.8	13.1	3.2	2.0	-6.8	-3.0	3.2	9.4	13.3	
22	8.8	13.1	4.3	0.0	-4.5	-1.1	4.3	9.8	13.1	
23	7.5	12.6	5.1	0.0	-2.5	0.4	5.1	9.9	12.8	
24	6.6	11.6	4.9	0.0	-1.1	1.2	4.9	8.7	11.0	
Daily	Energy Use (kWh)	Event Day Energy Use	Energy Use (kWh)	Degree Hours	Uncertainty Adjusted Impact (kWh/hour) - Percentiles					
					10th	30th	50th	70th	90th	
	305	332	27	130.1	-125	-67	27	121	179	