

UNITED STATES OF AMERICA
BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION

San Diego Gas & Electric Company,)	Docket Nos.	EL00-95-000
Complainant,)		EL00-95-045
)		EL00-95-075
v.)		
)		
Sellers of Energy and Ancillary Services)		
into Markets Operated by the California)		
Independent System Operator)		
Corporation and the)		
California Power Exchange,)		
Respondents.)		
)		
)		
Investigation of Practices of the)		EL00-98-000
California Independent System Operator)		EL00-98-042
and the California Power Exchange)		EL00-98-063
)		

PREPARED TESTIMONY OF WILLIAM GREEN,
MANAGER OF BILLING AND SETTLEMENTS,
CALIFORNIA ENERGY RESOURCES SCHEDULING DIVISION,
CALIFORNIA DEPARTMENT OF WATER RESOURCES
ON BEHALF OF THE CALIFORNIA PARTIES

Index of Relevant Material Template

Submitter (Party Name)	California Parties
Index Exh. No.	CA-13
Privileged Info (Yes/No)	Yes
Document Title	Prepared Testimony of William Green, Manager of Billing and Settlements, California Energy Resources Scheduling Division, California Department of Water Resources on Behalf of the California Parties
Document Author	William Green
Doc. Date (mm/dd/yyyy)	03/03/2003
Specific finding made or proposed	Prices in the ISO and PX Spot Markets from October 2, 2000 to June 20, 2001, including sales and exchanges to CERS acting on behalf of the ISO, were unjust and unreasonable. Sellers participated in Megawatt Laundering or "Ricochet." Sellers participated in false load schedules by engaging in "self help." CERS short-term transactions during the refund period should be mitigated.
Time period at issue	b) Between 10/2000 and 6/2001.
Docket No(s). and case(s) finding pertains to *	E100-95 and EL00-98 (including all subdockets)
Indicate if Material is New or from the Existing Record (include references to record material)	New
Explanation of what the evidence purports to show	Sellers refused to sell OOMs to the ISO and insisted instead on selling in real time to CERS. Sellers also engaged in "self help" by scheduling a day-ahead sale to CERS and then failing to deliver the contracted-for quantity, which caused the ISO to have to purchase the shortfall in the real-time or OOM market, which often occurred through CERS. Additionally, CERS suspected, and other testimony now confirms, that sellers engaged in "megawatt laundering" transactions, whereby the sellers would purchase energy from California's markets, export it out-of-state, and then sell that same energy back to the CERS in real time so that CERS could meet the ISO's demand. Sellers also engaged in exchanges with CERS at high ratios.
Party/Parties	American Electric Power Services; Avista; City of Burbank; Coral; Duke;

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performing any alleged manipulation	El Paso; Eugene Water & Electric Board; Grant County PUD No. 2; LADWP; Mirant; Nevada Power Co.; PacifiCorp; Portland General Electric; PG&E Trading; Public Service Co. of New Mexico; Pinnacle West; Powerex; City of Seattle, City Light Dept.; Sempra; Salt River Project; TransAlta; MSR Public Power Agency; Public Service of Colorado; Puget Sound Energy; Sierra Pacific Power Co.; TransCanada Power Co.; Tucson Electric Power; Turlock Irrigation District; Williams Energy Services Co.; Washington Water Power Co.; City of Anaheim; CDWR; Commission de Federale Elactricidad; Dynegy; Northern California Power Agency, PG&E; Sacramento Municipal Utility District; BP Energy Co.; Calpine Energy Services; Commonwealth Energy Corp.; City of Glendale; Merrill Lynch; Mico, Inc.; CalPX; San Diego Gas & Electric; Silicon Valley Power; City of Vernon; EPMI; BPA; Cargill; Colorado River Storage Project; TransAlata Energy Marketing; Tacoma Power; Western Area Lower Colorado; Western Area Power Administrator; AES NewEnergy, Inc.; Power Exchange; Modesto Irrigation District; City of Riverside; Sempra Energy Solutions; Cargill; Constellation Power Source; Western Area PowerAdmin – Sierra; Allegheny Energy Supply Co.; East Bay Municipal Utility District; Fresno COGEN; New Energy, Inc.; Sierra Pacific Industries; UC Medical Center; Snohomish County PUD;
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**PREPARED TESTIMONY OF WILLIAM GREEN,
MANAGER OF BILLING AND SETTLEMENTS,
CALIFORNIA ENERGY RESOURCES SCHEDULING DIVISION,
CALIFORNIA DEPARTMENT OF WATER RESOURCES
ON BEHALF OF THE CALIFORNIA PARTIES**

- 1 Q. Please state your name and business address.
- 2 A. My name is William Green. My business address is California Department of Water
3 Resources, 3310 El Camino Avenue, Suite 120, Sacramento, California 95821.
4
- 5 Q. By whom are you employed, Mr. Green?

1 A. I am the Manager of Billing and Settlements for the California Energy Resources
2 Scheduling Division (CERS) of the California Department of Water Resources
3 (CDWR).

4
5 Q. Please summarize your professional and educational background.

6 A. I hold a Bachelor's degree in mathematics from Ohio Northern University and I have
7 taken masters courses in Mathematics at Bowling Green University. I have been
8 employed in the electric power industry for over twenty-six years. I worked in the
9 Power Supply department of the Bonneville Power Administration from 1976-1984.
10 In 1984 I left Bonneville Power and joined Pacific Gas and Electric Company's
11 scheduling dispatch office. After 13 years at Pacific Gas and Electric, I worked for
12 the scheduling department at the California Independent System Operator
13 Corporation (ISO). I left that position in April 2001 to become the Manager of
14 Settlements for CERS. My duties over the years have entailed the marketing and
15 scheduling of power, computer programming and quantitative systems analysis,
16 short and long-term planning, data acquisition and reporting, contract administration,
17 and scheduling coordination. I have extensive experience in all aspects of power
18 production and marketing.

19
20 Q. Please briefly describe the nature of your duties and responsibilities at CERS.

21 A. As Manager of Billing and Settlements for CERS, I am responsible for reviewing
22 and settling all electric power purchases, associated products, and invoices.

1

2 Q. What is the purpose of your testimony?

3 A. I will provide facts concerning certain CERS bilateral purchases of energy from
4 sellers, including exchanges, beginning with the commencement of CERS'
5 operations on January 17, 2001 and ending on June 20, 2001.

6

7 Q. Please describe CERS.

8 A. CERS is a division of CDWR, an agency of the State of California. As authorized
9 by a Proclamation of the Governor of the State of California, dated January 17,
10 2001, and by legislation enacted in 2001 (known as SB 7X and AB1X), CDWR
11 was authorized to purchase electric power and to sell power to retail end use
12 customers. Effective January 17, 2001, CDWR began to implement this authority
13 through CERS. This function is separate and distinct from the water management
14 and power functions associated with CDWR's State Water Project.

15

16 Q. Please describe CERS' bilateral purchases during the period January 17 - June 20,
17 2001.

18 A. Beginning on January 17, 2001, and through the end of the refund period on June
19 20, 2001, CERS bilaterally purchased from sellers approximately \$5 billion of
20 energy on a 24 hours or less basis. Some of these bilateral purchases were day
21 ahead and some hour ahead, to fulfill CERS' obligation to meet the "net short"
22 (i.e., the portion of the needs of the retail customers of California's investor owned

1 utilities not met through the schedules of the IOUs themselves), and the rest were
2 out-of-market purchases made by CERS at the instruction of the ISO in order to
3 allow the ISO to meet grid reliability needs. Collectively, I will refer to these
4 purchases as "CERS OOMs." These CERS OOM costs were directly invoiced to
5 CERS by sellers, and CERS has directly paid the sellers.
6

7 Q. How, if at all, do these bilateral purchases by CERS differ from purchases made
8 by the ISO for which CERS provided payment?

9 A. After January 17, 2001, when CERS came into existence, CERS served as the
10 creditworthy backer of the ISO when the ISO acquired energy for balancing in real
11 time (BEEP transaction) or through out-of-market purchases. In addition to
12 backing BEEP purchases made by the ISO, CERS purchased directly from sellers
13 to meet essentially the same needs, and did so at the direction of the ISO. In many
14 instances during this time period, sellers refused to sell energy to the ISO and
15 insisted on dealing with CERS. CERS OOMs served the same function as these
16 ISO purchases, and in fact either the PX (for day ahead and hour ahead purchases)
17 or the ISO (for real time and OOM) performed those functions before CERS was
18 created. It is my understanding that ISO transactions of this type, which I will
19 refer to collectively as "ISO OOMs," are subject to mitigation in the refund
20 proceeding in this docket, but that CERS OOMs are not.
21

1 Q. Did CERS keep records of the bilateral energy purchases that you are referring to as
2 CERS OOMs , and exchanges?

3 A. Yes.

4

5 Q. Are you familiar with those records?

6 A. Yes. I have personally reviewed all invoices for these transactions that CERS
7 received for purchases and exchanges from January 17, 2001 through June 20, 2001.

8

9 Q. Have you identified the CERS OOMs?

10 A. Yes. Exh. No. CA-14 (Appendix A) is a schedule that sets forth, for the time period
11 in question, the aggregate purchases that CERS made from sellers. It shows
12 purchases, by month, by seller, with price (average and maximum), and volumes. It
13 is further broken down by type of transaction – OOM, hour ahead, and day ahead.
14 Also included is similar information for balance of month transactions that CERS
15 entered into with sellers during this time period.

16

17 Q. Can you provide a description of the differences among OOM, hour ahead, day
18 ahead and balance of month transactions?

19 A. Yes. OOM transactions are those purchases made by CERS that were directed by
20 the ISO for real time grid reliability requirements. Day ahead transactions were
21 bilateral transactions entered into on the day prior to the delivery date, with the
22 exception of weekends and holidays. Under the WECC convention, there is a pre-

1 scheduling calendar for trading to accommodate weekends and holidays, which
2 treats properly scheduled purchases for those days as day ahead transactions (for
3 example, deliveries on Friday and Saturday are transacted on Thursdays). Hour
4 ahead transactions are bilateral transactions entered into intra-day, that is, the same
5 day as delivery. Finally, balance of month transactions are short-term transactions
6 entered into for periods of time longer than day ahead transactions.

7
8 Q. Are you also providing a more detailed record of CERS transactions than the one
9 summarized in Exh. No. CA-14 (Appendix A)?

10 A. Yes. The CERS database of transactions, which Exh. No. CA-14 (Appendix A)
11 summarizes, is set forth in a separate compact disk, designated as Exh. No. CA-197.

12
13 Q. During the time period in question, did CERS also acquire energy in bilateral
14 transactions through exchanges?

15 A. Yes.

16
17 Q. Please define what you mean by an exchange.

18 A. Generically, an exchange is sending and receiving products, usually energy, not
19 necessarily in the same time period nor at the same delivery rate. In a typical
20 exchange the energy that is provided by one party is equal to the amount of energy
21 returned by the counter-party, multiplied by a "return ratio." For example, the
22 Western Systems Power Pool Agreement, a FERC-approved rate schedule governing

1 many transactions in the Western U.S., provides for a cap on exchange ratios of 1.5
2 to 1.

3
4 Q. During the period January 17, 2001 - June 20, 2001, what exchanges did CERS enter
5 into?

6 A. Exh. No. CA-14 (Appendix B) sets forth the details concerning CERS' exchange
7 arrangements. The bulk of these arrangements were with Powerex at exchange
8 ratios of 2.5 to 1, and all but a few of these were "like time" exchanges.

9
10 Q. California Parties' witness Fox-Penner discusses in his testimony what he describes
11 as a "negative uninstructed deviations" strategy by sellers known as "self-help,"
12 pursuant to which sellers reduced their receivables from the ISO by scheduling on a
13 day ahead basis bilateral sales with CERS as purchaser, failing to produce the
14 contracted-for quantities, thereby forcing the ISO to purchase the shortfall in the real
15 time or OOM market (often through CERS), and invoicing the non-delivering seller
16 for the negative uninstructed deviation, which the seller then "offset" against the
17 ISO's outstanding liability to that seller. Are you aware of any facts that relate to
18 "self-help" practices on the part of sellers?

19 A. CERS had suspicions that self-help was occurring, but in general did not have the
20 necessary data to prove it, because to do so it is necessary to correlate negative
21 uninstructed deviations, by volume and seller, with CERS bilateral purchases from a

1 particular seller and generation data -- meter reads -- from the seller that was
2 supposed to satisfy the obligation to CERS.

3
4 Q. Why did CERS suspect that self-help was occurring?

5 A. CERS knew that it had contracted with particular sellers for bilateral purchases,
6 knew that the ISO was experiencing substantial imbalances that needed to be made
7 up through very substantial BEEP or OOM purchases, either by the ISO with CERS'
8 backing or by CERS directly, and realized after reviewing monthly ISO Market
9 Certifications that many of the same sellers with whom CERS had contracted
10 bilaterally had very substantial unpaid balances to the ISO. In general, however, we
11 could not verify that self-help was actually going on because we did not have the
12 necessary meter data. This meter data often was not available to CERS because
13 neither the ISO nor the sellers provided it. The ISO could not provide the data due to
14 confidentiality provisions, and most sellers simply refused to provide the meter data
15 that CERS needed to verify that the paid-for energy was actually delivered by the
16 seller.

17
18 Q. Was there any instance that exemplified CERS' suspicion?

19 A. CERS made a real time "CERS OOM" bilateral purchase from Duke Energy in April
20 2001. For the purchase in question, that had a price of \$1,273,513.61, CERS
21 explained to Duke that it would withhold payment until Duke could provide records
22 to prove that Duke actually generated and delivered the power to the ISO. After a

1 number of e-mail exchanges, CERS requested, and Duke agreed to provide, Duke's
2 daily downloads from the ISO to verify that the energy actually had been delivered.
3 Duke never provided the information, however, and CERS, as a consequence, never
4 paid Duke's bill. Our last contact with Duke on the issue was in December 2001,
5 when Duke agreed to provide the information. CERS never received either the
6 information or another invoice from Duke.

7
8 Q. California Parties' witness Fox-Penner also describes in his testimony a type of
9 "ricochet" or "megawatt laundering" transaction in which sellers purchased energy
10 from California's organized markets, exported it out-of-state, and then re-imported it
11 and sold it to CERS in order for CERS to be able to meet the ISO's shortfalls. Are
12 you aware of any facts that relate to these practices?

13 A. Through April 2001, while I was employed by the ISO in the scheduling department,
14 I personally encountered a number of instances in which particular sellers refused to
15 sell OOM energy to the ISO when the ISO needed it, and instead insisted on selling
16 that energy to CERS. I am personally aware that Powerex, LADWP, BPA, Public
17 Service New Mexico, Puget and PacifiCorp were entities that, during my tenure at
18 the ISO while CERS was in existence (and therefore standing ready to provide
19 payment for ISO purchases) simply refused to sell to the ISO and insisted on selling
20 instead to CERS on a bilateral basis.

21
22 I am aware that CERS imported and purchased bilaterally in real time substantial

1 amounts of energy from outside of the ISO control area during the period January 17,
2 2001 - June 20, 2001 from this same group of sellers.

3

4 Q. Does this conclude your testimony?

5 A. Yes, it does.

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San Diego Gas & Electric Company,)	
Complainant)	
)	
v.)	Docket Nos. EL00-95-069
)	
Sellers of Energy and Ancillary Services Into)	
Markets Operated by the California)	
Independent System Operator Corporation)	
and the California Power Exchange,)	
Respondents.)	
)	
Investigation of Practices of the California)	Docket Nos. EL00-98-058
Independent System Operator and the)	
California Power Exchange.)	

AFFIDAVIT OF WILLIAM GREEN

I declare under penalty of perjury that the foregoing is true and correct.

Executed on February 24, 2003.

William A. Green
William Green

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Index of Relevant Material Template

Submitter (Party Name)	California Parties
Index Exh. No.	CA-14
Privileged Info (Yes/No)	Yes
Document Title	Appendices to the Prepared Testimony of William Green, Manager of Billing and Settlements, California Energy Resources Scheduling Division, California Department of Water Resources on Behalf of the California Parties
Document Author	William Green
Doc. Date (mm/dd/yyyy)	03/03/2003
Specific finding made or proposed	Prices in the ISO and PX Spot Markets from October 2, 2000 to June 20, 2001, including sales and exchanges to CERS acting on behalf of the ISO, were unjust and unreasonable. Sellers participated in Megawatt Laundering or "Ricochet." Sellers participated in false load schedules by engaging in "self help." CERS short term transactions during the refund period should be mitigated.
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Party/Parties performing any alleged manipulation	American Electric Power Services; Avista; City of Burbank; Coral; Duke; El Paso; Eugene Water & Electric Board; Grant County PUD No. 2; LADWP; Mirant; Nevada Power Co.; PacifiCorp; Portland General Electric; PG&E Trading; Public Service Co. of New Mexico; Pinnacle West; Powerex; City of Seattle, City Light Dept.; Sempra; Salt River Project; TransAlta; MSR Public Power Agency; Public Service of Colorado; Puget Sound Energy; Sierra Pacific Power Co.; TransCanada Power Co.; Tucson Electric Power; Turlock Irrigation District; Williams Energy Services Co.; Washington Water Power Co.; City of Anaheim; CDWR; Commission de Federale Electricidad; Dynegy; Northern California Power Agency, PG&E; Sacramento Municipal Utility District; BP Energy Co.; Calpine Energy Services; Commonwealth Energy Corp.; City of Glendale; Merrill Lynch; Mico, Inc.; CalPX; San Diego Gas & Electric; Silicon Valley Power; City of Vernon; EPMI; BPA; Cargill; Colorado River Storage Project; TransAlata Energy Marketing; Tacoma Power; Western Area Lower Colorado; Western Area Power Administrator; AES NewEnergy, Inc.; Power Exchange; Modesto Irrigation District; City of Riverside; Sempra Energy Solutions; Cargill; Constellation Power Source; Western Area PowerAdmin – Sierra; Allegheny Energy Supply Co.; East Bay Municipal Utility District; Fresno COGEN; New Energy, Inc.; Sierra Pacific Industries; UC Medical Center; Snohomish County PUD;
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Over-All Summary by Transaction Type

Out of Market	MWh	TOTAL COST	Max Price	Average Price
January 17-31, 2001	452,485	\$ 211,223,197.00	\$ 800.00	\$ 466.81
February, 2001	1,699,401	\$ 662,395,535.40	\$ 1,294.00	\$ 383.90
March, 2001	2,023,907	\$ 660,304,634.16	\$ 675.00	\$ 326.25
April, 2001	1,813,773	\$ 719,149,271.51	\$ 720.00	\$ 396.49
May, 2001	1,779,306	\$ 564,823,575.39	\$ 675.00	\$ 317.44
June 1-20, 2001	562,157	\$ 78,233,760.00	\$ 500.00	\$ 139.17
	\$ 8,331,029	\$ 2,886,129,973		

Hour Ahead	MWh	TOTAL COST	Max Price	Average Price
January 17-31, 2001	78,068	\$ 21,002,632.96	\$ 500.00	\$ 269.03
February, 2001	236,386	\$ 56,800,876.08	\$ 650.00	\$ 240.29
March, 2001	324,011	\$ 72,871,493.00	\$ 500.00	\$ 224.90
April, 2001	129,043	\$ 29,030,748.00	\$ 450.00	\$ 224.97
May, 2001	164,642	\$ 30,006,567.00	\$ 470.00	\$ 182.25
June 1-20, 2001	56,376	\$ 4,957,121.16	\$ 224.00	\$ 87.93
	988,526	214,669,438		

Day Ahead	MWh	TOTAL COST	Max Price	Average Price
January 17-31, 2001	561,728	\$ 135,996,347.15	\$ 485.00	\$ 242.10
February, 2001	1,904,747	\$ 468,217,743.40	\$ 793.34	\$ 245.82
March, 2001	1,747,290	\$ 418,320,277.00	\$ 565.00	\$ 239.41
April, 2001	1,389,510	\$ 372,632,062.00	\$ 600.00	\$ 268.18
May, 2001	1,958,760	\$ 479,185,987.42	\$ 638.95	\$ 244.64
June 1-20, 2001	774,986	\$ 76,121,956.00	\$ 375.00	\$ 98.22
	8,337,021	\$ 1,950,474,372.97		

Balance f Month	MWh	TOTAL COST	Max Price	Average Price
January 17-31, 2001	386,200	\$ 118,295,000.00	\$ 490.00	\$ 306.31
February, 2001	232,397	\$ 71,681,230.80	\$ 497.30	\$ 308.44
March, 2001	322,092	\$ 75,855,993.20	\$ 325.00	\$ 235.51
April, 2001	651,403	\$ 158,223,442.40	\$ 335.00	\$ 242.90
May, 2001	357,194	\$ 74,914,562.00	\$ 545.83	\$ 209.73
June 1-20, 2001	262,176	\$ 42,728,979.20	\$ 322.00	\$ 162.98
	2,211,462	\$ 541,699,207.60		

Parties with Sales to CERS over \$100 million

<u>Symbol</u>	<u>Name</u>
PWRX	Powerex
MAEM	Mirant
WESC	Williams Energy Marketing and Trading
SETC	Sempra Energy Trading (formerly AIG Trading)
LDWP	Los Angeles Department of Water & Power
TEMU	TransAlta Energy Marketing U.S.
BPA1	Bonneville Power Administration
AETS	Allegheny Energy Trading Services
CDWR	California Department of Water Resources
PNMM	Public Service of New Mexico

Parties are listed in decreasing rank, that is, the party with the highest level of sales is listed first.

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January 2001 Summary

	MWh	TOTAL COST	Max Price	Average Price
Out of Market	452,485	\$ 211,223,197.00	\$ 800.00	\$ 466.81
Hour Ahead	78,068	\$ 21,002,632.96	\$ 500.00	\$ 269.03
Day Ahead	561,728	\$ 135,996,347.15	\$ 485.00	\$ 242.10
Balance of Month	386,200	\$ 118,295,000.00	\$ 490.00	\$ 306.31
Total	1,478,481.00	\$ 486,517,177.11		

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January 2001 Out of Market

Counter Party	MWh OOM	TOTAL COST OOM	Max Price OOM	Average Price OOM
AEPS	7,124	\$ 3,833,500.00	\$ 650.00	\$ 538.11
AVST	655	\$ 307,500.00	\$ 500.00	\$ 469.47
BURB	860	\$ 249,400.00	\$ 290.00	\$ 290.00
CRLP	61,220	\$ 33,602,570.00	\$ 750.00	\$ 548.88
DETM	6,999	\$ 3,390,525.00	\$ 575.00	\$ 484.43
EPSP	1,145	\$ 190,990.00	\$ 200.00	\$ 166.80
EWEB	43,972	\$ 21,868,125.00	\$ 600.00	\$ 497.32
GCPD	2,500	\$ 1,170,000.00	\$ 600.00	\$ 468.00
LDWP	51,535	\$ 19,226,231.00	\$ 535.00	\$ 373.07
MAEM	1,405	\$ 762,625.00	\$ 800.00	\$ 542.79
MSR	52	\$ 10,400.00	\$ 200.00	\$ 200.00
NVPM	4,813	\$ 1,047,760.00	\$ 250.00	\$ 217.69
PAC1	400	\$ 162,000.00	\$ 450.00	\$ 405.00
PGE1	475	\$ 318,071.00	\$ 685.98	\$ 669.62
PGET	4,500	\$ 1,273,900.00	\$ 490.00	\$ 283.09
PNMM	11,942	\$ 3,443,050.00	\$ 350.00	\$ 288.31
PSCO	50	\$ 25,000.00	\$ 500.00	\$ 500.00
PSE1	100	\$ 40,000.00	\$ 400.00	\$ 400.00
PWEPW	12,700	\$ 2,862,500.00	\$ 290.00	\$ 225.39
PWRX	118,816	\$ 59,185,725.00	\$ 750.00	\$ 498.13
SCL1	3,765	\$ 2,390,850.00	\$ 800.00	\$ 635.02
SETC	85,415	\$ 44,622,525.00	\$ 700.00	\$ 522.42
SPPC	3,930	\$ 1,711,525.00	\$ 475.00	\$ 435.50
SRP1	14,705	\$ 2,705,275.00	\$ 300.00	\$ 183.97
TCPTC	246	\$ 127,075.00	\$ 550.00	\$ 516.57
TEMU	10,568	\$ 5,656,425.00	\$ 650.00	\$ 535.24
TEP	350	\$ 66,250.00	\$ 200.00	\$ 189.29
TID	13	\$ 2,650.00	\$ 250.00	\$ 203.85
WESC	1,320	\$ 621,500.00	\$ 550.00	\$ 470.83
WWPC	910	\$ 349,250.00	\$ 500.00	\$ 383.79
Grand Total	452,485	\$ 211,223,197.00	\$ 800.00	\$ 466.81

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January 2001 Hour Ahead

Counter Party	MWh HOUR AHEAD	TOTAL COST HOUR AHEAD	Max Price HOUR AHEAD	Average Price HOUR AHEAD
ANHM	175.00	\$ 43,750.00	\$ 250.00	\$ 250.00
CDWR	2,532.00	\$ 557,647.96	\$ 360.00	\$ 220.24
CFE1	402.00	\$ 92,460.00	\$ 230.00	\$ 230.00
CRLP	1,425.00	\$ -	\$ -	\$ -
DETM	6,793.00	\$ 760,200.00	\$ 250.00	\$ 111.91
ECH1	980.00	\$ -	\$ -	\$ -
LDWP	7,794.00	\$ 2,021,328.00	\$ 273.50	\$ 259.34
MAEM	3,750.00	\$ 740,250.00	\$ 215.00	\$ 197.40
NCPA	310.00	\$ -	\$ -	\$ -
NES1	24,585.00	\$ 4,158,720.00	\$ 250.00	\$ 169.16
PGAE	5,940.00	\$ 1,039,500.00	\$ 175.00	\$ 175.00
PWRX	23,100.00	\$ 11,550,000.00	\$ 500.00	\$ 500.00
SMUD	75.00	\$ 14,250.00	\$ 190.00	\$ 190.00
TID	207.00	\$ 24,527.00	\$ 200.00	\$ 118.49
Grand Total	78,068.00	\$ 21,002,632.96	\$ 500.00	\$ 269.03

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January 2001 Day Ahead

Counter Party	MWh DAY AHEAD	TOTAL COST DAY AHEAD	Max Price DAY AHEAD	Average Price DAY AHEAD
AEPS	3,200	\$ 814,000.00	\$ 265.00	\$ 254.38
ANHM	2,472	\$ 417,530.00	\$ 215.00	\$ 168.90
BPEC	1,200	\$ 272,000.00	\$ 240.00	\$ 226.67
CALP	1,400	\$ 381,000.00	\$ 305.00	\$ 272.14
CDWR	75,772	\$ 16,706,006.00	\$ 362.00	\$ 220.48
CEEA	6,620	\$ 993,000.00	\$ 150.00	\$ 150.00
CFE1	800	\$ 184,000.00	\$ 230.00	\$ 230.00
DETM	15,681	\$ 3,911,350.00	\$ 300.00	\$ 249.43
ECH1	10,400	\$ 2,511,600.00	\$ 335.00	\$ 241.50
EPPS	2,784	\$ 781,840.00	\$ 420.00	\$ 280.83
EWEB	800	\$ 388,000.00	\$ 485.00	\$ 485.00
GLEN	1,200	\$ 450,000.00	\$ 375.00	\$ 375.00
LDWP	77,928	\$ 17,718,870.00	\$ 347.60	\$ 227.37
MAEM	156,000	\$ 42,729,400.00	\$ 417.00	\$ 273.91
MERL	42,760	\$ 10,100,300.00	\$ 330.00	\$ 236.21
MIEC	24,569	\$ 6,980,740.00	\$ 290.00	\$ 284.13
NCPA	5,880	\$ 1,601,100.00	\$ 330.00	\$ 272.30
NES1	20,800	\$ 4,038,000.00	\$ 310.00	\$ 194.13
PGAE	17,280	\$ 4,177,440.00	\$ 327.00	\$ 241.75
PGET	4,480	\$ 861,744.00	\$ 235.00	\$ 192.35
PWEPW	2,400	\$ 584,000.00	\$ 300.00	\$ 243.33
PXC1	29,208	\$ 5,073,282.15	\$ 228.18	\$ 173.69
SDG3	4,962	\$ 1,040,830.00	\$ 235.00	\$ 209.76
SETC	24,607	\$ 6,982,640.00	\$ 375.00	\$ 283.77
SMUD	400	\$ 162,000.00	\$ 405.00	\$ 405.00
SNCL	400	\$ 116,000.00	\$ 290.00	\$ 290.00
VERN	525	\$ 82,875.00	\$ 165.00	\$ 157.86
WESC	27,200	\$ 5,936,800.00	\$ 242.00	\$ 218.26
Grand Total	561,728	\$ 135,996,347.15	\$ 485.00	\$ 242.10

Contains Protected Material -
Not Available to Competitive Duty Personnel

January 2001 Balance of Month

Counter Party	MWh BOM	TOTAL COST BOM	Max Price BOM	Average Price BOM
CFE1	1,600	\$ 368,000.00	\$ 230.00	\$ 230.00
DETM	40,200	\$ 12,435,000.00	\$ 350.00	\$ 309.33
ECH1	36,000	\$ 12,252,000.00	\$ 375.00	\$ 340.33
EPMI	13,200	\$ 4,950,000.00	\$ 375.00	\$ 375.00
EPPS	9,000	\$ 2,700,000.00	\$ 300.00	\$ 300.00
GLEN	13,200	\$ 4,950,000.00	\$ 375.00	\$ 375.00
LDWP	72,000	\$ 15,120,000.00	\$ 210.00	\$ 210.00
MAEM	78,000	\$ 20,610,000.00	\$ 320.00	\$ 264.23
MERL	7,200	\$ 2,700,000.00	\$ 375.00	\$ 375.00
MIEC	38,800	\$ 18,072,000.00	\$ 490.00	\$ 465.77
NES1	6,000	\$ 1,350,000.00	\$ 225.00	\$ 225.00
PAC1	12,000	\$ 4,200,000.00	\$ 350.00	\$ 350.00
PGET	6,000	\$ 1,800,000.00	\$ 300.00	\$ 300.00
PWEPW	6,600	\$ 1,815,000.00	\$ 275.00	\$ 275.00
SETC	35,600	\$ 12,165,000.00	\$ 375.00	\$ 341.71
WESC	10,800	\$ 2,808,000.00	\$ 260.00	\$ 260.00
Grand Total	386,200	\$ 118,295,000.00	\$ 490.00	\$ 306.31

Contains Protected Material -
Not Available to Competitive Duty Personnel

February 2001 Summary

	MWh	TOTAL COST	Max Price	Average Price
Out of Market	1,699,401	\$ 652,395,535.40	\$ 793.34	\$ 383.90
Hour Ahead	236,386	\$ 56,800,876.08	\$ 650.00	\$ 240.29
Day Ahead	1,904,747	\$ 468,217,743.40	\$ 1,101.00	\$ 245.82
Balance of Month	232,397	\$ 71,681,230.80	\$ 497.30	\$ 308.44
Total	2,137,144	\$ 539,898,974.20	\$ 799.15	\$ 277.13

Contains Protected Material -
Not Available to Competitive Duty Personnel

February 2001 Out of Market

	OOM MWh	OOM Amount	OOM Max Price	OOM Average Price
AEPS	2,015	\$ 916,250.00	\$ 500.00	\$ 454.71
AVST	3,100	\$ 1,007,500.00	\$ 325.00	\$ 325.00
BPA1	96,230	\$ 30,380,390.00	\$ 365.00	\$ 315.71
BURB	7,935	\$ 2,425,075.00	\$ 600.00	\$ 305.62
CARG	200	\$ 50,000.00	\$ 250.00	\$ 250.00
CDWR	550	\$ 72,928.00	\$ 250.00	\$ 132.60
CFE1	26,350	\$ 5,474,250.00	\$ 230.00	\$ 207.75
CRLP	32,952	\$ 15,314,030.00	\$ 575.00	\$ 464.74
CRSP	420	\$ 58,800.00	\$ 140.00	\$ 140.00
DETM	6,613	\$ 3,122,160.00	\$ 600.00	\$ 472.12
ECH1	800	\$ 169,000.00	\$ 220.00	\$ 211.25
EPMI	2,400	\$ 776,000.00	\$ 375.00	\$ 323.33
EPSS	1,746	\$ 522,385.00	\$ 525.00	\$ 299.19
EWEB	65,473	\$ 29,465,125.00	\$ 650.00	\$ 450.03
GCPD	29,125	\$ 9,984,000.00	\$ 500.00	\$ 342.80
LDWP	294,201	\$ 85,542,206.00	\$ 793.34	\$ 290.76
MAEM	8,005	\$ 1,632,000.00	\$ 400.00	\$ 203.87
MERL	1,200	\$ 228,000.00	\$ 260.00	\$ 190.00
MIEC	1,200	\$ 320,000.00	\$ 300.00	\$ 266.67
MSR	13	\$ 6,175.00	\$ 475.00	\$ 475.00
NES1	1,600	\$ 385,000.00	\$ 280.00	\$ 240.63
NVPM	55,782	\$ 12,249,600.00	\$ 475.00	\$ 219.60
PAC1	1,563	\$ 508,450.00	\$ 400.00	\$ 325.30
PGET	1,875	\$ 430,000.00	\$ 250.00	\$ 229.33
PNMM	55,338	\$ 16,885,525.00	\$ 600.00	\$ 305.13
PWEPW	65,702	\$ 15,618,375.00	\$ 600.00	\$ 237.72
PWRX	276,358	\$ 137,963,231.40	\$ 500.00	\$ 499.22
SCL1	105	\$ 63,375.00	\$ 625.00	\$ 603.57
SETC	338,607	\$ 167,044,360.00	\$ 700.00	\$ 493.33
SMUD	225	\$ 90,000.00	\$ 400.00	\$ 400.00
SPPC	2,600	\$ 1,064,750.00	\$ 500.00	\$ 409.52
SRP1	57,491	\$ 9,277,925.00	\$ 300.00	\$ 161.38
TCRTC	22,595	\$ 8,712,520.00	\$ 550.00	\$ 385.60
TEMU	13,586	\$ 4,663,500.00	\$ 450.00	\$ 343.26
TEP	10,635	\$ 1,852,075.00	\$ 500.00	\$ 174.15
TPWR	2,818	\$ 1,202,285.00	\$ 510.00	\$ 426.64
WALC	75	\$ 4,500.00	\$ 60.00	\$ 60.00
WAPA	5,369	\$ 2,213,120.00	\$ 530.00	\$ 412.20
WESC	203,252	\$ 83,657,070.00	\$ 650.00	\$ 411.59
WWPC	3,297	\$ 1,043,600.00	\$ 500.00	\$ 316.53
Grand Total	1,699,401	\$ 652,395,535.40	\$ 793.34	\$ 383.90

Contains Protected Material -
Not Available to Competitive Duty Personnel

February 2001 Hour Ahead

	HA MWh	HA Amount	HA Max Price	HA Average Price
AES	11	\$ 1,925.00	\$ 175.00	\$ 175.00
ANHM	75	\$ 9,000.00	\$ 120.00	\$ 120.00
APX1	300	\$ -	\$ -	\$ -
CDWR	42,650	\$ 8,931,978.08	\$ 250.00	\$ 209.43
CRLP	34	\$ 7,820.00	\$ 230.00	\$ 230.00
DETM	10,922	\$ 2,798,415.00	\$ 650.00	\$ 256.22
ECH1	27,877	\$ 4,771,584.00	\$ 400.00	\$ 171.17
EPMI	3,200	\$ 593,000.00	\$ 265.00	\$ 185.31
MAEM	56,551	\$ 12,724,000.00	\$ 290.00	\$ 225.00
MERL	15,870	\$ 4,027,746.00	\$ 500.00	\$ 253.80
MID1	175	\$ 87,500.00	\$ 500.00	\$ 500.00
NCPA	255	\$ 44,625.00	\$ 175.00	\$ 175.00
NES1	41,699	\$ 10,181,922.00	\$ 475.00	\$ 244.18
PGAE	255	\$ 90,000.00	\$ 400.00	\$ 352.94
PGET	2,162	\$ 257,140.00	\$ 185.00	\$ 118.94
RVSD	330	\$ 62,700.00	\$ 225.00	\$ 190.00
SES	563	\$ 117,826.00	\$ 410.00	\$ 209.28
SETC	24,180	\$ 9,468,705.00	\$ 600.00	\$ 391.59
SMUD	2,245	\$ 808,750.00	\$ 500.00	\$ 360.24
TID	4,140	\$ 1,173,150.00	\$ 450.00	\$ 283.37
TID1	1,189	\$ 283,865.00	\$ 260.00	\$ 238.74
WESC	1,703	\$ 359,225.00	\$ 335.00	\$ 210.94
Grand Total	236,386	\$ 56,800,876.08	\$ 650.00	\$ 240.29

Contains Protected Material -
Not Available to Competitive Duty Personnel

February 2001 Day Ahead

	Day Ahead MWh	Day Ahead Amount	Day Ahead Max Price	Day Ahead Average Price
AEPS	11,200	\$ 2,460,000.00	\$ 285.00	\$ 219.64
ANHM	22,483	\$ 3,445,610.00	\$ 1,101.00	\$ 153.25
BPEC	30,725	\$ 10,286,380.00	\$ 475.00	\$ 334.79
CALP	59,336	\$ 13,399,640.00	\$ 460.00	\$ 225.83
CARG	600	\$ 170,000.00	\$ 300.00	\$ 283.33
CDWR	71,593	\$ 14,843,346.00	\$ 250.00	\$ 207.33
CEEA	17,878	\$ 2,760,060.00	\$ 200.00	\$ 154.38
CRLP	1,200	\$ 468,000.00	\$ 475.00	\$ 390.00
DETM	12,171	\$ 3,347,285.00	\$ 460.00	\$ 275.02
ECH1	55,200	\$ 17,147,200.00	\$ 475.00	\$ 310.64
EPMI	21,600	\$ 5,238,000.00	\$ 300.00	\$ 242.50
EPPS	14,208	\$ 3,760,400.00	\$ 490.00	\$ 264.67
LDWP	48,541	\$ 16,836,689.00	\$ 560.00	\$ 346.86
MAEM	931,550	\$ 221,931,210.00	\$ 475.00	\$ 238.24
MERL	107,208	\$ 23,444,244.00	\$ 475.00	\$ 218.68
MIEC	10,200	\$ 2,918,000.00	\$ 475.00	\$ 286.08
NCPA	5,329	\$ 995,585.00	\$ 250.00	\$ 186.82
NES1	166,769	\$ 36,767,620.00	\$ 490.00	\$ 220.47
PGET	6,648	\$ 1,142,424.00	\$ 340.00	\$ 171.84
PNMM	1,800	\$ 445,600.00	\$ 450.00	\$ 247.56
PWEPW	10,199	\$ 2,230,580.00	\$ 465.00	\$ 218.71
PWRX	63,855	\$ 31,298,993.40	\$ 497.30	\$ 490.16
PXC3	4,320	\$ -	\$ -	\$ -
SEL1	5,535	\$ 1,052,340.00	\$ 310.00	\$ 190.12
SETC	33,160	\$ 7,266,400.00	\$ 400.00	\$ 219.13
SMUD	10,500	\$ 4,277,000.00	\$ 450.00	\$ 407.33
SRP1	3,200	\$ 736,000.00	\$ 230.00	\$ 230.00
TID	1,040	\$ 184,800.00	\$ 195.00	\$ 177.69
VERN	9,789	\$ 1,734,847.00	\$ 250.00	\$ 177.22
WESC	166,910	\$ 37,629,490.00	\$ 475.00	\$ 225.45
Grand Total	1,904,747	\$ 468,217,743.40	\$ 1,101.00	\$ 245.82

Contains Protected Material -
Not Available to Competitive Duty Personnel

February 2001 Balance of Month

	BOM MWh	BOM Amount	BOM Max Price	BOM Average Price
BPEC	8,000	\$ 2,680,000.00	\$ 335.00	\$ 335.00
ECH1	4,000	\$ 1,024,000.00	\$ 256.00	\$ 256.00
EPMI	9,600	\$ 2,544,000.00	\$ 265.00	\$ 265.00
EPPS	8,000	\$ 2,480,000.00	\$ 310.00	\$ 310.00
LDWP	114,232	\$ 34,059,544.00	\$ 319.00	\$ 298.16
MIEC	4,800	\$ 1,536,000.00	\$ 320.00	\$ 320.00
NES1	53,891	\$ 12,853,990.00	\$ 360.00	\$ 238.52
PWRX	28,794	\$ 14,318,296.80	\$ 497.30	\$ 497.27
SES	1,080	\$ 185,400.00	\$ 185.00	\$ 171.67
Grand Total	232,397	\$ 71,681,230.80	\$ 497.30	\$ 308.44

March 2001 Summary

	MWh	TOTAL COST	Max Price	Average Price
Out of Market	2,023,907	\$ 660,304,634.16	\$ 675.00	\$ 326.25
Hour Ahead	324,011	\$ 72,871,493.00	\$ 500.00	\$ 224.90
Day Ahead	1,747,290	\$ 418,320,277.00	\$ 565.00	\$ 239.41
Balance of Month	322,092	\$ 75,855,993.20	\$ 325.00	\$ 235.51
Total	4,417,300	\$ 1,227,352,397.36		

March 2001 Day Ahead

	MWh DAY AHEAD	TOTAL COST DAY AHEAD	Max Price DAY AHEAD	Average Price DAY AHEAD
AEIS	93,228	\$ 19,407,551.00	\$ 400.00	\$ 208.17
ANHM	7,751	\$ 1,153,633.00	\$ 285.00	\$ 148.84
BPEC	23,612	\$ 5,030,652.00	\$ 400.00	\$ 213.05
CALP	2,000	\$ 396,000.00	\$ 270.00	\$ 198.00
CDWR	72,009	\$ 11,322,938.00	\$ 264.00	\$ 157.24
CEEA	22,247	\$ 3,562,435.00	\$ 225.00	\$ 160.13
DETM	59,600	\$ 13,430,400.00	\$ 400.00	\$ 225.34
EBMU	1,424	\$ 246,352.00	\$ 260.00	\$ 173.00
ECH1	101,180	\$ 24,193,600.00	\$ 405.00	\$ 239.11
EPSS	10,800	\$ 1,434,000.00	\$ 280.00	\$ 132.78
GLEN	600	\$ 165,000.00	\$ 275.00	\$ 275.00
LDWP	37,073	\$ 8,571,573.00	\$ 415.00	\$ 231.21
MAEM	699,439	\$ 169,448,558.00	\$ 405.00	\$ 242.26
MERL	130,838	\$ 29,813,947.00	\$ 400.00	\$ 227.87
MIEC	13,200	\$ 4,234,000.00	\$ 365.00	\$ 320.76
MSCG	1,400	\$ 238,000.00	\$ 225.00	\$ 170.00
NCPA	7,370	\$ 1,343,130.00	\$ 325.00	\$ 182.24
NES1	600	\$ 134,000.00	\$ 255.00	\$ 223.33
PGET	9,328	\$ 2,347,584.00	\$ 345.00	\$ 251.67
PNMM	800	\$ 292,000.00	\$ 365.00	\$ 365.00
PWEPW	7,000	\$ 1,138,400.00	\$ 190.00	\$ 162.63
PWRX	97,200	\$ 45,156,000.00	\$ 500.00	\$ 464.57
SEL1	4,251	\$ 833,407.00	\$ 335.00	\$ 196.05
SES	120	\$ 12,600.00	\$ 105.00	\$ 105.00
SETC	13,640	\$ 3,808,000.00	\$ 360.00	\$ 279.18
SMUD	24,185	\$ 8,575,250.00	\$ 400.00	\$ 354.57
TEMU	2,600	\$ 519,000.00	\$ 275.00	\$ 199.62
TID	3,249	\$ 729,450.00	\$ 375.00	\$ 224.52
VERN	10,286	\$ 1,445,717.00	\$ 205.00	\$ 140.55
WESC	286,900	\$ 59,152,300.00	\$ 565.00	\$ 206.18
Grand Total	1,747,290	\$ 418,320,277.00	\$ 565.00	\$ 239.41

Contains Protected Material -
Not Available to Competitive Duty Personnel

March 2001 Hour Ahead

	MWh	HOUR AHEAD	TOTAL COST		Max Price		Average Price	
			HOUR AHEAD	HOUR AHEAD	HOUR AHEAD	HOUR AHEAD	HOUR AHEAD	HOUR AHEAD
AES		22	\$	3,150.00	\$	160.00	\$	143.18
AETS		15,195	\$	3,176,646.00	\$	340.00	\$	209.06
CDWR		49,264	\$	10,446,951.00	\$	264.00	\$	212.06
CEEA		64	\$	8,430.00	\$	195.00	\$	131.72
CRLP		742	\$	111,415.00	\$	265.00	\$	150.15
DETM		28,082	\$	7,331,465.00	\$	350.00	\$	261.07
ECH1		5,978	\$	1,490,400.00	\$	350.00	\$	249.31
EPPS		17,623	\$	2,605,725.00	\$	250.00	\$	147.86
GLEN		796	\$	248,800.00	\$	325.00	\$	312.56
MAEM		118,238	\$	28,063,715.00	\$	350.00	\$	237.35
MERL		2,590	\$	572,750.00	\$	260.00	\$	221.14
NCPA		3,228	\$	485,270.00	\$	350.00	\$	150.33
NES1		6,660	\$	806,301.00	\$	170.00	\$	121.07
PWEPW		1	\$	185.00	\$	185.00	\$	185.00
PWRX		5,421	\$	2,489,460.00	\$	500.00	\$	459.23
SES		30	\$	4,050.00	\$	135.00	\$	135.00
SETC		33,802	\$	7,490,680.00	\$	360.00	\$	221.60
SMUD		10,800	\$	2,258,350.00	\$	425.00	\$	209.11
TID		2,026	\$	418,710.00	\$	310.00	\$	206.67
VERN		1,523	\$	311,900.00	\$	285.00	\$	204.79
WAMP		272	\$	85,280.00	\$	340.00	\$	313.53
WESC		21,654	\$	4,461,860.00	\$	325.00	\$	206.05
Grand Total		324,011	\$	72,871,493.00	\$	500.00	\$	224.90

March 2001 Out of Market

	MWh OOM	TOTAL COST OOM	Max Price OOM	Average Price OOM
ANHM	576	\$ 47,600.00	\$ 120.00	\$ 82.64
BPA1	347,874	\$ 108,604,220.00	\$ 523.00	\$ 312.19
BURB	20,145	\$ 5,230,050.00	\$ 550.00	\$ 259.62
CALP	2,224	\$ 333,600.00	\$ 150.00	\$ 150.00
CFE1	21,600	\$ 3,672,000.00	\$ 170.00	\$ 170.00
CPSC	60	\$ 7,725.00	\$ 135.00	\$ 128.75
CRLP	21,563	\$ 7,997,400.00	\$ 575.00	\$ 370.89
DETM	12,246	\$ 4,286,875.00	\$ 490.00	\$ 350.06
EPPS	41,348	\$ 15,732,880.00	\$ 565.00	\$ 380.50
EWEB	42,055	\$ 14,149,375.00	\$ 500.00	\$ 336.45
GCPD	59,584	\$ 20,602,940.00	\$ 500.00	\$ 345.78
GLEN	725	\$ 204,050.00	\$ 375.00	\$ 281.45
LDWP	75,270	\$ 29,683,495.16	\$ 650.00	\$ 394.36
MAEM	60,806	\$ 17,310,445.00	\$ 530.00	\$ 284.68
NVPM	66,525	\$ 10,216,700.00	\$ 290.00	\$ 153.58
PGET	8,062	\$ 2,724,935.00	\$ 550.00	\$ 338.00
PNMM	198,861	\$ 46,378,090.00	\$ 450.00	\$ 233.22
PWEPW	97,180	\$ 19,768,275.00	\$ 450.00	\$ 203.42
PWRX	180,936	\$ 92,019,365.00	\$ 675.00	\$ 508.57
SETC	150,840	\$ 62,712,867.00	\$ 600.00	\$ 415.76
SRP1	4,680	\$ 827,625.00	\$ 250.00	\$ 176.84
TCPTC	45,100	\$ 16,372,347.00	\$ 575.00	\$ 363.02
TEMU	225,354	\$ 74,133,305.00	\$ 550.00	\$ 328.96
TEP	38,637	\$ 6,718,000.00	\$ 475.00	\$ 173.87
VERN	22	\$ 4,950.00	\$ 225.00	\$ 225.00
WALC	665	\$ 183,500.00	\$ 280.00	\$ 275.94
WAMP	280	\$ 30,800.00	\$ 110.00	\$ 110.00
WAPA	9,388	\$ 2,680,925.00	\$ 425.00	\$ 285.57
WESC	291,301	\$ 97,670,295.00	\$ 525.00	\$ 335.29
Grand Total	2,023,907	\$ 660,304,634.16	\$ 675.00	\$ 326.25

Contains Protected Material -
Not Available to Competitive Duty Personnel

March 2001 Balance of Month

	MWh BOM	TOTAL COST BOM	Max Price BOM	Average Price BOM
BPEC	23,200	\$ 3,758,400.00	\$ 162.00	\$ 162.00
DETM	38,400	\$ 6,812,000.00	\$ 200.00	\$ 177.40
GLEN	10,800	\$ 2,916,000.00	\$ 270.00	\$ 270.00
LDWP	12,024	\$ 2,561,713.20	\$ 213.05	\$ 213.05
MAEM	161,388	\$ 40,093,360.00	\$ 315.00	\$ 248.43
MIEC	56,000	\$ 16,520,000.00	\$ 325.00	\$ 295.00
NCPA	4,800	\$ 624,000.00	\$ 145.00	\$ 130.00
SES	1,680	\$ 296,520.00	\$ 203.00	\$ 176.50
WESC	13,800	\$ 2,274,000.00	\$ 190.00	\$ 164.78
Grand Total	322,092	\$ 75,855,993.20	\$ 325.00	\$ 235.51

April 2001 Summary

	MWh	TOTAL COST	Max Price	Average Price
Out of Market	1,813,773	\$ 719,149,271.51	\$ 720.00	\$ 396.49
Hour Ahead	129,043	\$ 29,030,748.00	\$ 450.00	\$ 224.97
Day Ahead	1,389,510	\$ 372,632,062.00	\$ 600.00	\$ 268.18
Balance of Month	651,403	\$ 158,223,442.40	\$ 335.00	\$ 242.90
Total	3,983,729	\$ 1,279,035,523.91		

April 2001 Out of Market

Calc CP	MWh	TOTAL COST	Max Price	Average Price
	OOM	OOM	OOM	OOM
ANHM	80	\$ 11,400.00	\$ 150.00	\$ 142.50
BPA1	64,755	\$ 14,645,000.00	\$ 425.00	\$ 226.16
BPEC	25	\$ 5,250.00	\$ 210.00	\$ 210.00
BURB	118,954	\$ 43,969,875.00	\$ 550.00	\$ 369.64
CALP	70,062	\$ 10,509,300.00	\$ 150.00	\$ 150.00
CPSC	1,725	\$ 193,425.00	\$ 150.00	\$ 112.13
CRLP	40,907	\$ 18,862,095.00	\$ 585.00	\$ 461.10
EPPS	56,404	\$ 24,853,715.00	\$ 600.00	\$ 440.64
EWEB	54,815	\$ 20,628,215.00	\$ 550.00	\$ 376.32
GCPD	46,676	\$ 17,448,075.00	\$ 550.00	\$ 373.81
LDWP	115,259	\$ 39,271,606.51	\$ 542.08	\$ 340.72
MAEM	276,283	\$ 123,444,985.00	\$ 720.00	\$ 446.81
NVPM	12,300	\$ 1,824,350.00	\$ 190.00	\$ 148.32
PNMM	50,391	\$ 10,331,255.00	\$ 400.00	\$ 205.02
PWEPW	15,523	\$ 3,192,575.00	\$ 400.00	\$ 205.67
PWRX	272,358	\$ 146,421,075.00	\$ 650.00	\$ 537.61
SETC	151,896	\$ 62,993,110.00	\$ 575.00	\$ 414.71
SMUD	300	\$ 100,500.00	\$ 335.00	\$ 335.00
TCPTC	36,045	\$ 12,674,789.00	\$ 525.00	\$ 351.64
TEMU	167,491	\$ 63,080,236.00	\$ 575.00	\$ 376.62
TEP	9,220	\$ 1,594,275.00	\$ 400.00	\$ 172.91
TPWR	4,960	\$ 1,980,820.00	\$ 500.00	\$ 399.36
WALC	370	\$ 75,675.00	\$ 230.00	\$ 204.53
WAPA	1,411	\$ 253,410.00	\$ 220.00	\$ 179.60
WESC	245,563	\$ 100,784,260.00	\$ 575.00	\$ 410.42
Grand Total	1,813,773	\$ 719,149,271.51	\$ 720.00	\$ 396.49

April 2001 Hour Ahead

Calc CP	MWh HOUR AHEAD	TOTAL COST		Max Price		Average Price	
		HOUR AHEAD	HOUR AHEAD	HOUR AHEAD	HOUR AHEAD	HOUR AHEAD	HOUR AHEAD
AETS	7,783	\$ 1,937,290.00	\$ 325.00	\$ 325.00	\$ 248.91		
BPEC	2,234	\$ 562,400.00	\$ 325.00	\$ 325.00	\$ 251.75		
CALP	695	\$ 153,750.00	\$ 235.00	\$ 235.00	\$ 221.22		
CDWR	35,785	\$ 7,924,165.00	\$ 300.00	\$ 300.00	\$ 221.44		
CEEA	115	\$ 29,150.00	\$ 320.00	\$ 320.00	\$ 253.48		
CRLP	45	\$ 14,400.00	\$ 320.00	\$ 320.00	\$ 320.00		
DETM	131	\$ 20,640.00	\$ 240.00	\$ 240.00	\$ 157.56		
EBMU	1,120	\$ 235,600.00	\$ 250.00	\$ 250.00	\$ 210.36		
ECH1	698	\$ 98,560.00	\$ 250.00	\$ 250.00	\$ 141.20		
EPPS	2,435	\$ 432,195.00	\$ 215.00	\$ 215.00	\$ 177.49		
FCP1	416	\$ 118,008.00	\$ 325.00	\$ 325.00	\$ 283.67		
MAEM	42,909	\$ 9,293,015.00	\$ 350.00	\$ 350.00	\$ 216.57		
NCPA	3,323	\$ 715,285.00	\$ 325.00	\$ 325.00	\$ 215.25		
NEI1	74	\$ 10,180.00	\$ 200.00	\$ 200.00	\$ 137.57		
NES1	825	\$ 163,250.00	\$ 200.00	\$ 200.00	\$ 197.88		
PWRX	2,638	\$ 777,740.00	\$ 450.00	\$ 450.00	\$ 294.82		
SETC	16,996	\$ 4,060,075.00	\$ 340.00	\$ 340.00	\$ 238.88		
SMUD	6,112	\$ 1,483,740.00	\$ 300.00	\$ 300.00	\$ 242.76		
TEMU	60	\$ 18,000.00	\$ 300.00	\$ 300.00	\$ 300.00		
TID	1,370	\$ 308,800.00	\$ 300.00	\$ 300.00	\$ 225.40		
VERN	110	\$ 12,100.00	\$ 110.00	\$ 110.00	\$ 110.00		
WESC	3,169	\$ 662,405.00	\$ 325.00	\$ 325.00	\$ 209.03		
Grand Total	129,043	\$ 29,030,748.00	\$ 450.00	\$ 450.00	\$ 224.97		

Contains Protected Material -
Not Available to Competitive Duty Personnel

April 2001 Day Ahead

Calc_CP	MWh		TOTAL COST		Max Price		Average Price	
	DAY AHEAD	DAY AHEAD	DAY AHEAD	DAY AHEAD	DAY AHEAD	DAY AHEAD	DAY AHEAD	DAY AHEAD
AETS	154,241		\$ 34,897,954.00	\$	365.00	\$	226.26	
ANHM	13,433		\$ 1,650,118.00	\$	215.00	\$	122.84	
BPEC	58,884		\$ 14,794,684.00	\$	360.00	\$	251.25	
CALP	9,320		\$ 2,286,168.00	\$	320.00	\$	245.30	
CDWR	86,727		\$ 18,545,171.00	\$	335.00	\$	213.83	
CEEA	23,414		\$ 5,090,103.00	\$	296.00	\$	217.40	
CRLP	800		\$ 204,000.00	\$	255.00	\$	255.00	
EBMU	2,192		\$ 440,608.00	\$	230.00	\$	201.01	
ECH1	59,971		\$ 13,179,908.00	\$	350.00	\$	219.77	
EPPS	2,000		\$ 432,000.00	\$	245.00	\$	216.00	
FCP1	384		\$ 96,000.00	\$	250.00	\$	250.00	
LDWP	4,600		\$ 1,015,000.00	\$	250.00	\$	220.65	
MAEM	371,739		\$ 84,768,932.00	\$	355.00	\$	228.03	
MIEC	12,800		\$ 4,138,000.00	\$	360.00	\$	323.28	
MSCG	200		\$ 36,400.00	\$	182.00	\$	182.00	
NCPA	9,960		\$ 2,538,950.00	\$	335.00	\$	254.91	
PGET	1,052		\$ 198,356.00	\$	310.00	\$	188.55	
PNMM	11,136		\$ 2,052,080.00	\$	250.00	\$	184.27	
PWEPW	6,925		\$ 1,401,600.00	\$	295.00	\$	202.40	
PWRX	224,600		\$ 100,438,000.00	\$	600.00	\$	447.19	
SDGE	400		\$ 100,000.00	\$	250.00	\$	250.00	
SEL1	1,845		\$ 356,706.00	\$	290.00	\$	193.34	
SETC	2,400		\$ 656,400.00	\$	325.00	\$	273.50	
SMJD	128,110		\$ 44,308,495.00	\$	385.00	\$	345.86	
SPIN	3,480		\$ 720,400.00	\$	240.00	\$	207.01	
TEMU	2,180		\$ 532,760.00	\$	300.00	\$	244.39	
TID	3,268		\$ 860,935.00	\$	300.00	\$	263.44	
UDMC	5,376		\$ 1,141,600.00	\$	290.00	\$	212.35	
VERN	7,130		\$ 801,099.00	\$	148.00	\$	112.36	
WESC	180,943		\$ 34,949,635.00	\$	355.00	\$	193.15	
Grand Total	1,389,510		\$ 372,632,062.00	\$	600.00	\$	268.18	

Contains Protected Material -
Not Available to Competitive Duty Personnel

April 2001 Balance of Month

Calc. CP	MWh BOM	TOTAL COST BOM	Max Price BOM	Average Price BOM
AETS	88,000	\$ 15,911,600.00	\$ 292.00	\$ 180.81
CALP	6,800	\$ 1,428,000.00	\$ 210.00	\$ 210.00
ECH1	6,998	\$ 1,119,680.00	\$ 160.00	\$ 160.00
GLEN	14,350	\$ 3,587,500.00	\$ 250.00	\$ 250.00
LDWP	128,309	\$ 22,402,751.40	\$ 174.60	\$ 174.60
MAEM	307,600	\$ 87,630,000.00	\$ 320.00	\$ 284.88
PWEPW	7,000	\$ 1,127,000.00	\$ 161.00	\$ 161.00
WESC	91,196	\$ 24,907,086.00	\$ 335.00	\$ 273.12
Grand Total	651,403	\$ 158,223,442.40	\$ 335.00	\$ 242.90

Contains Protected Material -
Not Available to Competitive Duty Personnel

May 2001 Summary

	MWh	TOTAL COST	Max Price	Average Price
Out of Market	1,779,306	\$ 564,823,575.39	\$ 675.00	\$ 317.44
Hour Ahead	164,642	\$ 30,006,567.00	\$ 470.00	\$ 182.25
Day Ahead	1,958,760	\$ 479,185,987.42	\$ 638.95	\$ 244.64
Balance of Month	357,194	\$ 74,914,562.00	\$ 545.83	\$ 209.73
Total	4,259,902	\$ 1,148,930,691.81		

Contains Protected Material -
Not Available to Competitive Duty Personnel

May 2001 Out of Market

Calc_CP	MWh		TOTAL COST		Max Price		Average Price	
	MWh	OOM	Amount	OOM	Max Price	OOM	Average Price	OOM
ANHM	328		\$ 59,870.00		\$ 200.00		\$ 182.53	
BPA1	90,198		\$ 12,323,970.00		\$ 250.00		\$ 136.63	
BURB	161,697		\$ 47,791,705.00		\$ 575.00		\$ 295.56	
CALP	169,674		\$ 24,342,100.00		\$ 170.00		\$ 143.46	
CPSC	6,033		\$ 1,028,745.00		\$ 330.00		\$ 170.52	
CRLP	23,060		\$ 6,962,585.00		\$ 540.00		\$ 301.93	
DETM	48		\$ 17,120.00		\$ 510.00		\$ 356.67	
EPPS	8,112		\$ 2,499,485.00		\$ 660.00		\$ 308.12	
EWEB	32,620		\$ 9,650,375.00		\$ 525.00		\$ 295.84	
GCPD	11,525		\$ 2,686,275.00		\$ 560.00		\$ 233.08	
GLEN	17,625		\$ 4,868,025.00		\$ 425.00		\$ 276.20	
LDWP	175,063		\$ 57,310,183.39		\$ 525.00		\$ 327.37	
MAEM	14,351		\$ 4,319,485.00		\$ 510.00		\$ 300.99	
MSCG	150		\$ 45,000.00		\$ 300.00		\$ 300.00	
INVPM	400		\$ 47,500.00		\$ 125.00		\$ 118.75	
PNMM	124,355		\$ 32,036,155.00		\$ 600.00		\$ 257.62	
PWEPW	850		\$ 127,000.00		\$ 200.00		\$ 149.41	
PWRX	408,507		\$ 205,960,434.00		\$ 675.00		\$ 504.18	
SETC	95,191		\$ 27,124,582.00		\$ 590.00		\$ 284.95	
SNO1	1,506		\$ 264,750.00		\$ 230.00		\$ 175.80	
SRP1	22,240		\$ 2,447,910.00		\$ 300.00		\$ 110.07	
TCPTC	21,644		\$ 5,496,375.00		\$ 500.00		\$ 253.94	
TEMU	188,305		\$ 56,292,387.00		\$ 625.00		\$ 298.94	
TEP	23,103		\$ 3,793,530.00		\$ 425.00		\$ 164.20	
TPWR	5,352		\$ 1,353,215.00		\$ 525.00		\$ 252.84	
WALC	2,275		\$ 458,425.00		\$ 390.00		\$ 201.51	
WAPA	4,945		\$ 1,542,380.00		\$ 450.00		\$ 311.91	
WESC	169,649		\$ 53,956,009.00		\$ 600.00		\$ 318.04	
Grand Total	1,779,306		\$ 564,823,575.39		\$ 675.00		\$ 317.44	

Contains Protected Material -
Not Available to Competitive Duty Personnel

May 2001 Hour Ahead

Calc_CP	MWh		TOTAL COST		Max Price		Average Price	
	MWh	Hour Ahead	Amount	Hour Ahead	Hour Ahead	Hour Ahead	Hour Ahead	Hour Ahead
AES	198		\$ 27,192.00		\$ 150.00		\$ 137.33	
AETS	11,396		\$ 2,361,055.00		\$ 340.00		\$ 207.18	
BPEC	2,471		\$ 675,181.00		\$ 400.00		\$ 273.24	
CALP	2,304		\$ 364,415.00		\$ 340.00		\$ 158.17	
CDWR	24,973		\$ 4,998,223.00		\$ 375.00		\$ 200.15	
CEEA	100		\$ 37,500.00		\$ 375.00		\$ 375.00	
EBMU	207		\$ 38,325.00		\$ 250.00		\$ 185.14	
ECH1	1,527		\$ 195,685.00		\$ 350.00		\$ 128.15	
EPPS	1,731		\$ 226,585.00		\$ 325.00		\$ 130.90	
FCP1	216		\$ 63,720.00		\$ 375.00		\$ 295.00	
MAEM	69,381		\$ 11,821,395.00		\$ 410.00		\$ 170.38	
NCPA	6,955		\$ 950,400.00		\$ 225.00		\$ 136.65	
PWRX	26		\$ 5,850.00		\$ 225.00		\$ 225.00	
SETC	30,903		\$ 5,943,541.00		\$ 350.00		\$ 192.33	
SMUD	5,850		\$ 1,142,625.00		\$ 250.00		\$ 195.32	
TID	1,264		\$ 306,370.00		\$ 470.00		\$ 242.38	
UDMC	121		\$ 15,730.00		\$ 130.00		\$ 130.00	
VERN	10		\$ 1,000.00		\$ 100.00		\$ 100.00	
WESC	5,009		\$ 831,775.00		\$ 425.00		\$ 166.06	
Grand Total	164,642		\$ 30,006,567.00		\$ 470.00		\$ 182.25	

Contains Protected Material -
Not Available to Competitive Duty Personnel

May 2001 Day Ahead

Calc_CP	MWh DAY AHEAD		TOTAL COST DAY AHEAD		Max Price DAY AHEAD		Average Price DAY AHEAD	
	Calc_CP	MWh	Amount		Max Price		Average Price	
AES	320		\$ 27,360.00		\$ 100.00		\$ 85.50	
AETS	165,210		\$ 38,179,920.00		\$ 515.00		\$ 231.10	
ANHM	11,358		\$ 1,422,170.00		\$ 330.00		\$ 125.21	
BPEC	188,700		\$ 49,609,772.00		\$ 520.00		\$ 262.90	
CALP	8,952		\$ 1,349,560.00		\$ 230.00		\$ 150.76	
CDWR	115,927		\$ 20,552,413.00		\$ 410.00		\$ 177.29	
CEEA	32,172		\$ 6,570,866.00		\$ 360.00		\$ 204.24	
DETM	16,250		\$ 4,492,559.00		\$ 319.60		\$ 276.47	
EBMU	3,960		\$ 599,880.00		\$ 195.00		\$ 151.48	
ECH1	98,555		\$ 17,583,808.00		\$ 515.00		\$ 178.42	
EPPS	1,600		\$ 400,000.00		\$ 250.00		\$ 250.00	
LDWP	80,791		\$ 22,835,944.00		\$ 510.00		\$ 282.65	
MAEM	254,371		\$ 55,839,440.00		\$ 505.00		\$ 219.52	
MIEC	83,280		\$ 15,264,800.00		\$ 415.00		\$ 183.29	
MSCG	7,400		\$ 897,400.00		\$ 250.00		\$ 121.27	
NCPA	25,775		\$ 4,998,600.00		\$ 445.00		\$ 193.93	
NES1	825		\$ 123,750.00		\$ 150.00		\$ 150.00	
PGET	1,632		\$ 333,600.00		\$ 525.00		\$ 204.41	
PNMM	14,419		\$ 3,879,485.00		\$ 440.00		\$ 269.05	
PWRX	464,741		\$ 142,387,909.42		\$ 638.95		\$ 306.38	
RVSD	2,695		\$ 382,765.00		\$ 300.00		\$ 142.03	
SEL1	2,859		\$ 725,431.00		\$ 510.00		\$ 253.74	
SETC	3,514		\$ 948,960.00		\$ 390.00		\$ 270.05	
SMUD	86,334		\$ 21,368,108.00		\$ 520.00		\$ 247.51	
SPIN	5,192		\$ 882,288.00		\$ 340.00		\$ 169.93	
SRP1	6,500		\$ 1,861,100.00		\$ 410.00		\$ 286.32	
TID	11,127		\$ 2,589,048.00		\$ 500.00		\$ 232.68	
UDMC	8,120		\$ 1,454,072.00		\$ 340.00		\$ 179.07	
VERN	4,981		\$ 865,179.00		\$ 380.00		\$ 173.70	
WESC	251,200		\$ 60,759,800.00		\$ 570.00		\$ 241.88	
Grand Total	1,958,760		\$ 479,185,987.42		\$ 638.95		\$ 244.64	

Contains Protected Material -
Not Available to Competitive Duty Personnel

May 2001 Balance of Month

Calc CP	MWh BOM		TOTAL COST BOM		Max Price BOM		Average Price BOM	
	MWh	Amount	Amount	Max Price	Max Price	Average Price	Average Price	
AETS	50,400	\$	11,720,600.00	\$	328.00	\$	232.55	
BPEC	13,600	\$	3,773,200.00	\$	310.00	\$	277.44	
EPPS	96,954	\$	20,150,876.00	\$	322.00	\$	207.84	
MAEM	79,200	\$	16,236,000.00	\$	205.00	\$	205.00	
PWEPPW	23,200	\$	2,668,000.00	\$	115.00	\$	115.00	
PWRX	240	\$	52,286.00	\$	545.83	\$	217.86	
WESC	93,600	\$	20,313,600.00	\$	300.00	\$	217.03	
Grand Total	357,194	\$	74,914,562.00	\$	545.83	\$	209.73	

Contains Protected Material -
Not Available to Competitive Duty Personnel

June 1-20, 2001 Summary

	MWh	TOTAL COST	Max Price	Average Price
Out of Market	562,157	\$ 78,233,760.00	\$ 500.00	\$ 139.17
Hour Ahead	56,376	\$ 4,957,121.16	\$ 224.00	\$ 87.93
Day Ahead	774,986	\$ 76,121,956.00	\$ 375.00	\$ 98.22
Balance of Month	262,176	\$ 42,728,979.20	\$ 322.00	\$ 162.98
Total	1,655,695	\$ 202,041,816.36		

Contains Protected Material -
Not Available to Competitive Duty Personnel

June 1-20, 2001 Out of Market

Calc_CP	MWh OOM	Amount OOM	Max Price OOM	Average Price OOM
BPA1	10,825	\$ 739,375.00	\$ 100.00	\$ 68.30
BURB	29,270	\$ 4,134,670.00	\$ 290.00	\$ 141.26
CALP	1,825	\$ 108,950.00	\$ 95.00	\$ 59.70
CPSC	39,795	\$ 4,090,440.00	\$ 225.00	\$ 102.79
CRLP	5,798	\$ 569,060.00	\$ 150.00	\$ 98.15
DETM	3,176	\$ 256,170.00	\$ 130.00	\$ 80.66
EPSS	1,262	\$ 100,340.00	\$ 135.00	\$ 79.51
EWEB	15,335	\$ 1,701,550.00	\$ 225.00	\$ 110.96
GCPD	6,867	\$ 821,897.50	\$ 225.00	\$ 119.69
GLEN	12,520	\$ 2,508,400.00	\$ 206.00	\$ 200.35
LDWP	73,200	\$ 11,507,074.00	\$ 293.14	\$ 157.20
MAEM	350	\$ 27,000.00	\$ 90.00	\$ 77.14
MSCG	50	\$ 4,500.00	\$ 90.00	\$ 90.00
PNMM	41,984	\$ 3,204,570.00	\$ 150.00	\$ 76.33
PWRX	82,786	\$ 25,452,315.00	\$ 500.00	\$ 307.45
SCL1	330	\$ 43,800.00	\$ 140.00	\$ 132.73
SETC	39,076	\$ 4,031,016.00	\$ 230.00	\$ 103.16
SNO1	5,321	\$ 585,770.00	\$ 220.00	\$ 110.09
SRP1	52,725	\$ 3,330,940.00	\$ 145.00	\$ 63.18
TCPTC	14,919	\$ 1,644,104.50	\$ 225.00	\$ 110.20
TEMU	83,005	\$ 8,783,846.00	\$ 250.00	\$ 105.82
TEP	9,648	\$ 658,520.00	\$ 125.00	\$ 68.25
TPWR	3,107	\$ 376,832.00	\$ 190.00	\$ 121.28
WESC	28,983	\$ 3,552,620.00	\$ 240.00	\$ 122.58
Grand Total	562,157	\$ 78,233,760.00	\$ 500.00	\$ 139.17

Contains Protected Material -
Not Available to Competitive Duty Personnel

June 1-20, 2001 Hour Ahead

Calc_CP	MWh HA	Amount HA	Max Price HA	Average Price HA
AES	450	\$ 28,375.00	\$ 80.00	\$ 63.06
AETS	3,643	\$ 300,613.00	\$ 160.00	\$ 82.52
ANHM	15	\$ 750.00	\$ 50.00	\$ 50.00
BPEC	175	\$ 15,000.00	\$ 95.00	\$ 85.71
CDWR	6,222	\$ 553,561.00	\$ 224.00	\$ 88.97
EBMU	18	\$ 830.00	\$ 60.00	\$ 46.11
ECH1	6,778	\$ 1,081,912.00	\$ 222.00	\$ 159.62
EPPS	146	\$ 5,723.16	\$ 60.00	\$ 39.20
FCP1	216	\$ 25,920.00	\$ 120.00	\$ 120.00
MAEM	19,542	\$ 1,388,045.00	\$ 110.00	\$ 71.03
NCPA	262	\$ 14,230.00	\$ 65.00	\$ 54.31
NES1	30	\$ 1,800.00	\$ 60.00	\$ 60.00
NRG	160	\$ 16,800.00	\$ 105.00	\$ 105.00
SETC	12,621	\$ 1,068,401.00	\$ 160.00	\$ 84.65
SPIN	518	\$ 34,260.00	\$ 95.00	\$ 66.14
TEMU	25	\$ 2,125.00	\$ 85.00	\$ 85.00
WESC	5,555	\$ 418,776.00	\$ 87.00	\$ 75.39
Grand Total	56,376	\$ 4,957,121.16	\$ 224.00	\$ 87.93

June 1-20, 2001 Day Ahead

Calc CP	MWh		Amount		Max Price		Average Price	
	DA	DA	DA	DA	DA	DA	DA	DA
AETS	102,823	\$ 10,026,163.00	\$ 177.00	\$ 97.51				
ANHM	6,663	\$ 531,623.00	\$ 165.00	\$ 79.79				
BPEC	50,760	\$ 4,847,880.00	\$ 180.00	\$ 95.51				
CALP	3,840	\$ 253,200.00	\$ 110.00	\$ 65.94				
CDWR	82,958	\$ 6,781,283.00	\$ 165.00	\$ 81.74				
CEEA	15,333	\$ 1,254,007.50	\$ 127.00	\$ 81.78				
CPSC	1,200	\$ 136,400.00	\$ 116.00	\$ 113.67				
DETM	1,600	\$ 136,000.00	\$ 85.00	\$ 85.00				
EBMU	552	\$ 34,296.00	\$ 120.00	\$ 62.13				
ECH1	63,760	\$ 3,561,600.00	\$ 160.00	\$ 55.86				
EPPS	4,800	\$ 350,400.00	\$ 180.00	\$ 73.00				
LDWP	10,531	\$ 1,551,888.00	\$ 155.00	\$ 147.36				
MAEM	127,045	\$ 14,433,775.00	\$ 190.00	\$ 113.61				
MID1	180	\$ 9,900.00	\$ 55.00	\$ 55.00				
MIEC	41,000	\$ 3,205,400.00	\$ 130.00	\$ 78.18				
MSCG	24,800	\$ 1,393,800.00	\$ 170.00	\$ 56.20				
NCPA	20,150	\$ 1,596,105.00	\$ 160.00	\$ 79.21				
PGET	1,696	\$ 116,240.00	\$ 100.00	\$ 68.54				
PNMM	12,100	\$ 1,070,750.00	\$ 140.00	\$ 88.49				
PWRX	99,425	\$ 17,597,684.00	\$ 375.00	\$ 176.99				
RVSD	4,996	\$ 238,214.00	\$ 103.00	\$ 47.68				
SEL1	2,312	\$ 139,880.00	\$ 145.00	\$ 60.50				
SETC	8,900	\$ 914,000.00	\$ 200.00	\$ 102.70				
SMUD	19,896	\$ 1,389,472.50	\$ 145.00	\$ 69.84				
SRP1	9,650	\$ 393,425.00	\$ 95.00	\$ 40.77				
TID	13,555	\$ 906,990.00	\$ 155.00	\$ 66.91				
UDMC	1,056	\$ 118,800.00	\$ 120.00	\$ 112.50				
VERN	1,365	\$ 74,580.00	\$ 150.00	\$ 54.64				
WESC	42,040	\$ 3,058,200.00	\$ 160.00	\$ 72.75				
Grand Total	774,986	\$ 76,121,956.00	\$ 375.00	\$ 98.22				

Contains Protected Material -
Not Available to Competitive Duty Personnel

June 1-20, 2001 Balance of Month

Calc. CP	MWh BOM	Amount BOM	Max Price BOM	Average Price BOM
BPEC	16,208	\$ 3,259,616.00	\$ 302.00	\$ 201.11
CEEA	18,000	\$ 2,412,000.00	\$ 134.00	\$ 134.00
ECH1	8,000	\$ 576,000.00	\$ 72.00	\$ 72.00
EPPS	84,000	\$ 17,903,680.00	\$ 322.00	\$ 213.14
MAEM	82,800	\$ 11,964,000.00	\$ 154.00	\$ 144.49
MIEC	48,800	\$ 6,384,800.00	\$ 205.00	\$ 130.84
NCPA	2,640	\$ 219,120.00	\$ 83.00	\$ 83.00
Grand Total	262,176	\$ 42,728,979.20	\$ 322.00	\$ 162.98

CERS EXCHANGE TRANSACTION SUMMARY

Counterparty	Total MWhs Received	Total MWhs Returned	Average Exchange Rate
Powerex (Storage) ¹	212,075	496,840	2.34
Powerex (Real Time) ²	8,000	15,744	1.97
BPA ³	72,141	98,233	1.36

¹ Appendix B pp. 2-4.

² Appendix B pp. 5-7.

³ Appendix B pp. 8-9.

POWEREX STORAGE TRANSACTIONS

	TOTAL MWh IN STORAGE ACCOUNT	EXCHANG E RATE	RETURNED FROM STORAGE	\$/MWh STORED	TOTAL COST	\$/MWh RECEIVED	Cost using CAISO Market Clearing Price	Cost to Return Energy	\$/MWh of Returned Energy
05/15/01	24,000	2.5	9,600	\$ 170.00	\$4,080,000	\$ 425.00			
05/16/01	24,000	2.5	9,600	\$ 170.00	\$4,080,000	\$ 425.00			
05/17/01	24,000	2.5	9,600	\$ 170.00	\$4,080,000	\$ 425.00			
05/18/01	26,400	1.9	13,895	\$ 170.00	\$4,488,000	\$ 323.00			
05/19/01	26,400	1.9	13,895	\$ 170.00	\$4,488,000	\$ 323.00			
05/19/01	6,000	2.5	2,400	N/A	N/A		\$ 597,228.75	\$ 1,493,071.88	\$ 622.11
05/20/01	200	2.5	80	N/A	N/A		\$ 15,200.00	\$ 38,000.00	\$ 475.00
05/20/01	26,400	1.9	13,895	\$ 170.00	\$4,488,000	\$ 323.00			
05/21/01	26,400	1.9	13,895	\$ 170.00	\$4,488,000	\$ 323.00			
05/23/01	6,000	2.5	2,400	\$ 150.00	\$900,000	\$ 375.00			
05/24/01	6,000	2.5	2,400	\$ 150.00	\$900,000	\$ 375.00			
05/25/01	6,000	2.5	2,400	\$ 150.00	\$900,000	\$ 375.00			
05/26/01	6,000	2.5	2,400	\$ 150.00	\$900,000	\$ 375.00			
05/27/01	24,000	2.5	9,600	\$ 140.00	\$3,360,000	\$ 350.00			
05/28/01	24,000	2.5	9,600	\$ 140.00	\$3,360,000	\$ 350.00			
05/29/01	6,000	2.5	2,400	\$ 140.00	\$840,000	\$ 350.00			
05/31/01	24,000	2.5	9,600	\$ 140.00	\$3,360,000	\$ 350.00			
06/01/01	24,000	2.5	9,600	\$ 140.00	\$3,360,000	\$ 350.00			
06/02/01	15,000	2.5	6,000	\$ 140.00	\$2,100,000	\$ 350.00			
06/03/01	15,000	2.5	6,000	\$ 140.00	\$2,100,000	\$ 350.00			
06/07/01	38,400	2.5	15,360	\$ 75.00	\$2,880,000	\$ 187.50			
06/08/01	37,600	2.5	15,040	\$ 75.00	\$2,820,000	\$ 187.50			
06/12/01	37,920	2.5	15,168	\$ 72.50	\$2,749,200	\$ 181.25			
06/13/01	37,920	2.5	15,168	\$ 72.50	\$2,749,200	\$ 181.25			
06/13/01	1,600	2.5	640	N/A	N/A		\$ 105,588.00	\$ 263,970.00	\$ 412.45
06/14/01	400	2.5	160	N/A	N/A		\$ 33,477.00	\$ 83,692.50	\$ 523.08
06/16/01	3,200	2.5	1,280	N/A	N/A		\$ 162,710.00	\$ 406,775.00	\$ 317.79
TOTAL	496,840		212,075		\$63,470,400			\$ 2,285,509	
ALL COST TOTAL					\$65,755,909				
AVERAGE RATE OF RETURNED ENERGY									\$310.06

Note 1: Storage transactions above include transactions only through 6/20/01.

Note 2: Storage transactions above without associated costs are transactions where energy was physically delivered to Powerex.

Contains Protected Material -
Not Available to Competitive Duty Personnel

POWEREX STORAGE (FINANCIAL)

		HE01 HE02 HE03 HE04 HE05 HE06 HE07 HE08 HE09 HE10 HE11 HE12 HE13 HE14 HE15 HE16 HE17 HE18 HE19 HE20 HE21 HE22 HE23 HE24																				Total	EXCHANGE RATE	\$/MW	TOTAL COST			
05/15/01	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	24000	2.5	\$ 170.00	\$4,080,000
05/16/01	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	24000	2.5	\$ 170.00	\$4,080,000
05/17/01	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	24000	2.5	\$ 170.00	\$4,080,000
05/18/01	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	26400	1.9	\$ 170.00	\$4,488,000
05/19/01	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	26400	1.9	\$ 170.00	\$4,488,000
05/20/01	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	26400	1.9	\$ 170.00	\$4,488,000
05/21/01	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	26400	1.9	\$ 170.00	\$4,488,000
05/23/01	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	6000	2.5	\$ 150.00	\$900,000
05/24/01	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	6000	2.5	\$ 150.00	\$900,000
05/25/01	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	6000	2.5	\$ 150.00	\$900,000
05/26/01	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	6000	2.5	\$ 150.00	\$900,000
05/27/01	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	24000	2.5	\$ 140.00	\$3,360,000
05/28/01	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	24000	2.5	\$ 140.00	\$3,360,000
05/29/01	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	6000	2.5	\$ 140.00	\$840,000
05/31/01	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	24000	2.5	\$ 140.00	\$3,360,000
06/01/01	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	24000	2.5	\$ 140.00	\$3,360,000
06/02/01	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	15000	2.5	\$ 140.00	\$2,100,000
06/03/01	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	15000	2.5	\$ 140.00	\$2,100,000
06/07/01	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	38400	2.5	\$ 75.00	\$2,880,000
06/08/01	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	37600	2.5	\$ 75.00	\$2,820,000
06/12/01	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	37920	2.5	\$ 72.50	\$2,749,200
06/13/01	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	37920	2.5	\$ 72.50	\$2,749,200
																									485,440			\$63,470,400

NOTES:

- 1.) Powerex will store 1000MW/HR for 3 days (5/15-5/17/01) @ \$170 and will return the energy Q3'01 at 25MW HL.
- 2.) Powerex will store 1000MW/HR for 24 hours for 4 days (5/18/01-5/21/01) @ \$170 and will return the energy Q3 25 MW Flat.
- 3.) Powerex will store 1000 mw for HE 1-6 (5/23-5/26) @ \$150/mw.
- 4.) Powerex will store 1000 MW/HR (5/27-5/28) for \$140.00
- 5.) Powerex will store 1000 MW/HR for HE 1-6 on 5/29 @ \$140.
- 6.) Powerex will store 1000 MW/HR flat on 5/31/01-6/1/01 at \$140
- 7.) Powerex will store 625 MW/HR flat on 6/2/01-6/3/01 at \$140.
- 8.) Powerex will store 1600 MW L-24 on 6/7/01 and 1600 L-23 and 800 on he 24 on 6/8/01 at \$75.
- 9.) Powerex will store 1580 MW L-24 on 6/12 and 6/13 total is 75,840 mwh at \$72.50. Will return 25 mw HL.H
- 10.) Powerex will store 145 mw for he 1-14 on 6/28/01 at \$31.

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ENERGY RECEIVED FROM POWEREX EXCHANGES

DATE	HE01	HE02	HE03	HE04	HE05	HE06	HE07	HE08	HE09	HE10	HE11	HE12	HE13	HE14	HE15	HE16	HE17	HE18	HE19	HE20	HE21	HE22	HE23	HE24	TOTAL MWH	DELIVERY POINT	
06/20/01													205	312	1,230	1,429	1,431	1,485	250	250						6,592	NOB
06/20/01													495	948	667	546	736	500	765	1,000	950	325	1,300	800		9,032	COB
06/20/01																	60									120	CASCADE
TOTAL																										15,744	

Contains Protected Material -
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PAYBACK ENERGY FOR POWERX EXCHANGES

		TOTAL DELIVERY													NOTES												
		MWH													POINT												
		8,000 NOB													Payback for energy received 6/20/01												
06/23/01	Totals	HE01	HE02	HE03	HE04	HE05	HE06	HE07	HE08	HE09	HE10	HE11	HE12	HE13	HE14	HE15	HE16	HE17	HE18	HE19	HE20	HE21	HE22	HE23	HE24		
		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	8,000	

SUMMARY OF REAL TIME ENERGY EXCHANGES WITH POWEREX

DATE	MWH RECEIVED IN REAL TIME FROM PWRX	EXCHANGE RATIO	AMOUNT TO BE RETURNED	ACTUAL AMOUNT RETURNED	DATE RETURNED	MWH TO BE AGGREGATED BY POWEREX	PRICE PER MW FOR AGGREGATION	TOTAL DUE TO POWEREX	EFFECTIVE COST TO CERS
06/20/01	15,744	2.5	39,360	8,000	6/23/2001	31,360	\$ 110.00	\$ 3,449,600.00	\$ 275.00

BPA EXCHANGES

	TOTAL MWHS RECEIVED	Cost using CAISO Market Clearing Price	EXCHANG E RATE	TOTAL MWHS RETURNED	Cost to Return Energy	\$/MWh of Returned Energy
04/26/01	900	\$ 127,926.00	1.50	1,350	\$ 191,889.00	\$ 213.21
05/01/01	10,760	\$ 1,645,366.40	1.25	13,450	\$ 2,056,708.00	\$ 191.14
05/02/01	1,150	\$ 147,372.00	1.25	1,438	\$ 184,215.00	\$ 160.19
05/04/01	8,585	\$ 935,610.30	1.25	10,731	\$ 1,169,512.88	\$ 136.23
05/05/01	4,905	\$ 643,004.65	1.25	6,131	\$ 803,755.81	\$ 163.86
05/05/01	400	\$ 53,144.00	1.50	600	\$ 79,716.00	\$ 199.29
05/06/01	12,790	\$ 1,891,380.70	1.25	15,988	\$ 2,364,225.88	\$ 184.85
05/07/01	343	\$ 48,467.64	1.25	429	\$ 60,584.55	\$ 176.63
05/08/01	1,200	\$ 195,948.00	1.60	1,920	\$ 313,516.80	\$ 261.26
05/10/01	1,200	\$ 162,396.00	1.50	1,800	\$ 243,594.00	\$ 203.00
05/11/01	3,900	\$ 468,093.50	1.70	6,630	\$ 795,758.95	\$ 204.04
05/11/01	815	\$ 91,683.30	1.50	1,223	\$ 137,524.95	\$ 168.74
05/12/01	2,450	\$ 341,306.50	1.50	3,675	\$ 511,959.75	\$ 208.96
05/12/01	300	\$ 44,547.00	1.25	375	\$ 55,683.75	\$ 185.61
05/14/01	2,800	\$ 281,027.00	1.50	4,200	\$ 421,540.50	\$ 150.55
05/15/01	600	\$ 64,650.00	1.50	900	\$ 96,975.00	\$ 161.63
05/20/01	3,000	\$ 319,458.00	1.50	4,500	\$ 479,187.00	\$ 159.73
05/21/01	2,100	\$ 221,109.00	1.75	3,675	\$ 386,940.75	\$ 184.26
05/22/01	4,963	\$ 624,039.73	1.10	5,459	\$ 686,443.70	\$ 138.31
05/23/01	5,080	\$ 669,417.20	1.50	7,620	\$ 1,004,125.80	\$ 197.66
05/24/01	1,000	\$ 145,050.00	1.50	1,500	\$ 217,575.00	\$ 217.58
05/31/01	400	\$ 72,348.00	1.60	640	\$ 115,756.80	\$ 289.39
06/01/01	2,500	\$ 254,250.00	1.60	4,000	\$ 406,800.00	\$ 162.72
TOTAL	72,141	\$ 9,447,594.92		98,233	\$ 12,783,989.87	\$ 177.21

Note 1: Storage transactions above include transactions only through 6/20/01.

