

# Southwest Power Pool, Inc. Corporate Metrics

for the period ending  
July 31, 2008



# Southwest Power Pool

## Corporate Metrics

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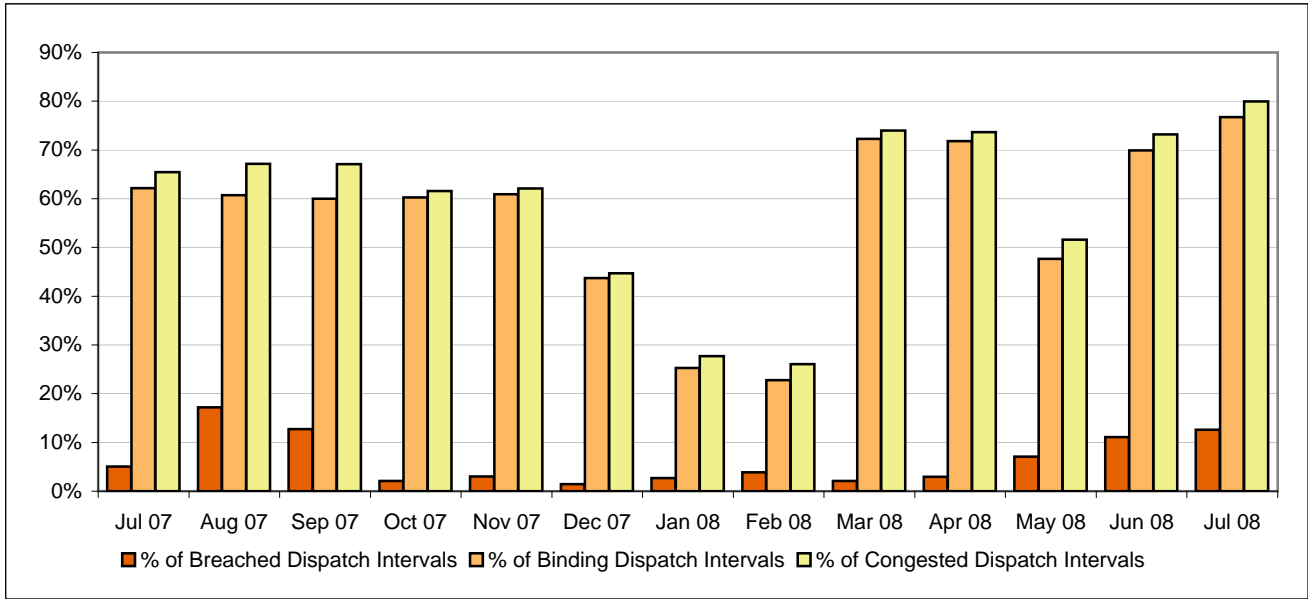
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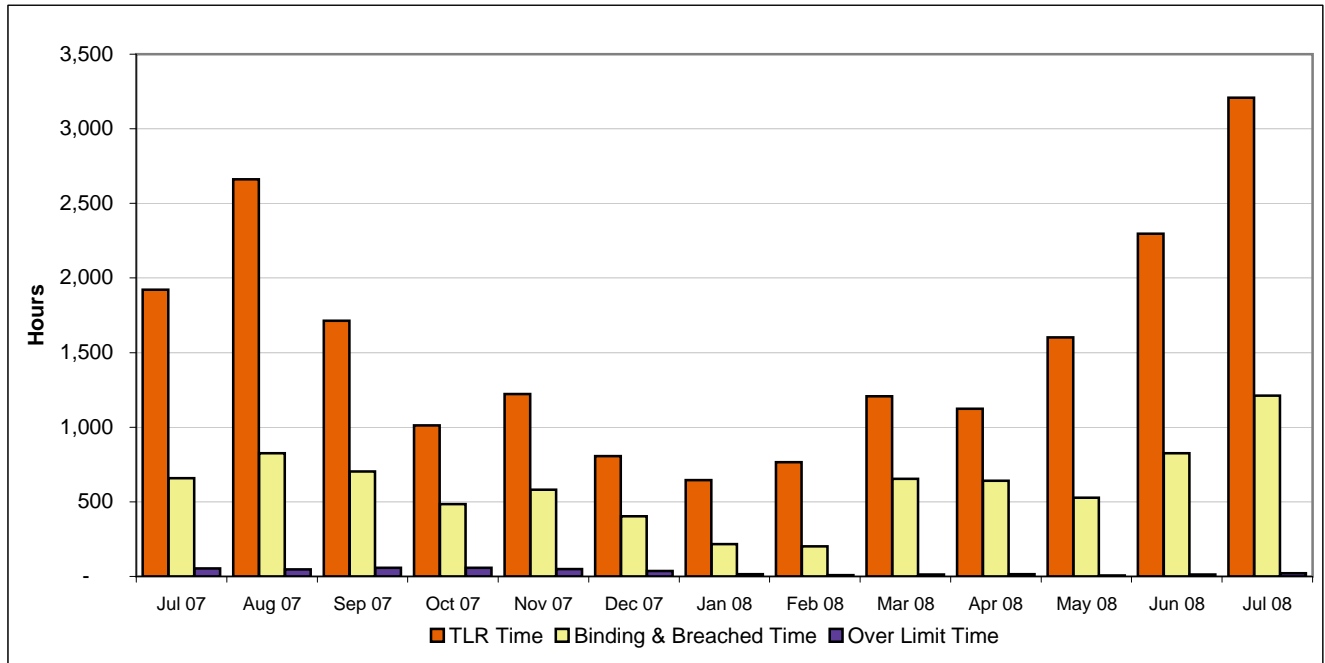
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# 1. Congestion

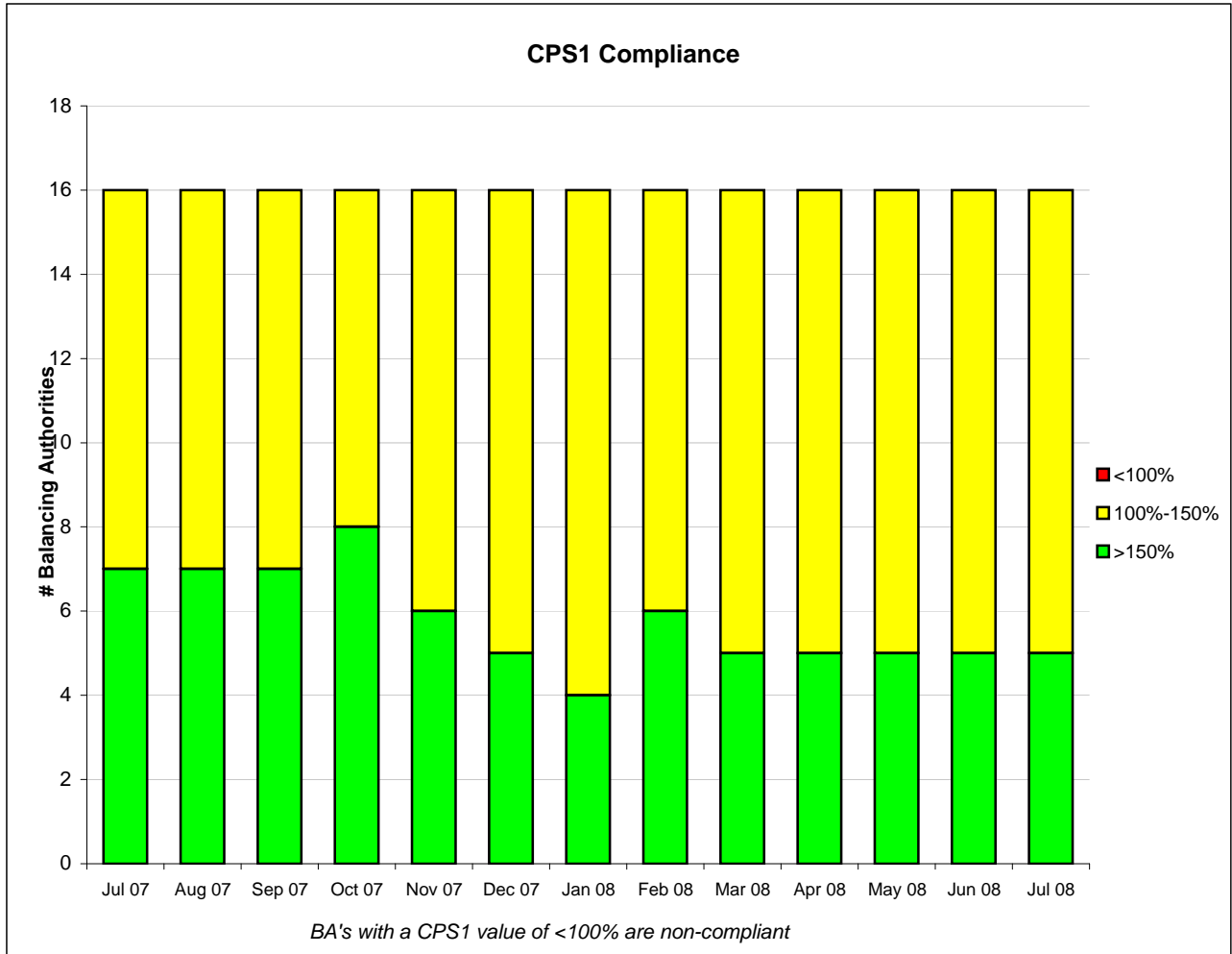


	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
% of Binding Dispatch Intervals	62%	61%	60%	60%	61%	44%	25%	23%	72%	72%	48%	70%	77%
% of Breached Dispatch Intervals	5%	17%	13%	2%	3%	1%	3%	4%	2%	3%	7%	11%	13%
% of Congested Dispatch Intervals	65%	67%	67%	62%	62%	45%	28%	26%	74%	74%	52%	73%	80%



<i>in hours</i>	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
TLR Time	1922	2661	1714	1011	1221	807	646	766	1207	1125	1603	2297	3209
Binding & Breached Time	658	826	704	486	581	402	216	202	655	641	527	826	1213
Over Limit Time	54	48	58	59	50	37	15	9	14	14	6	14	21

## 2. Regional Control Performance

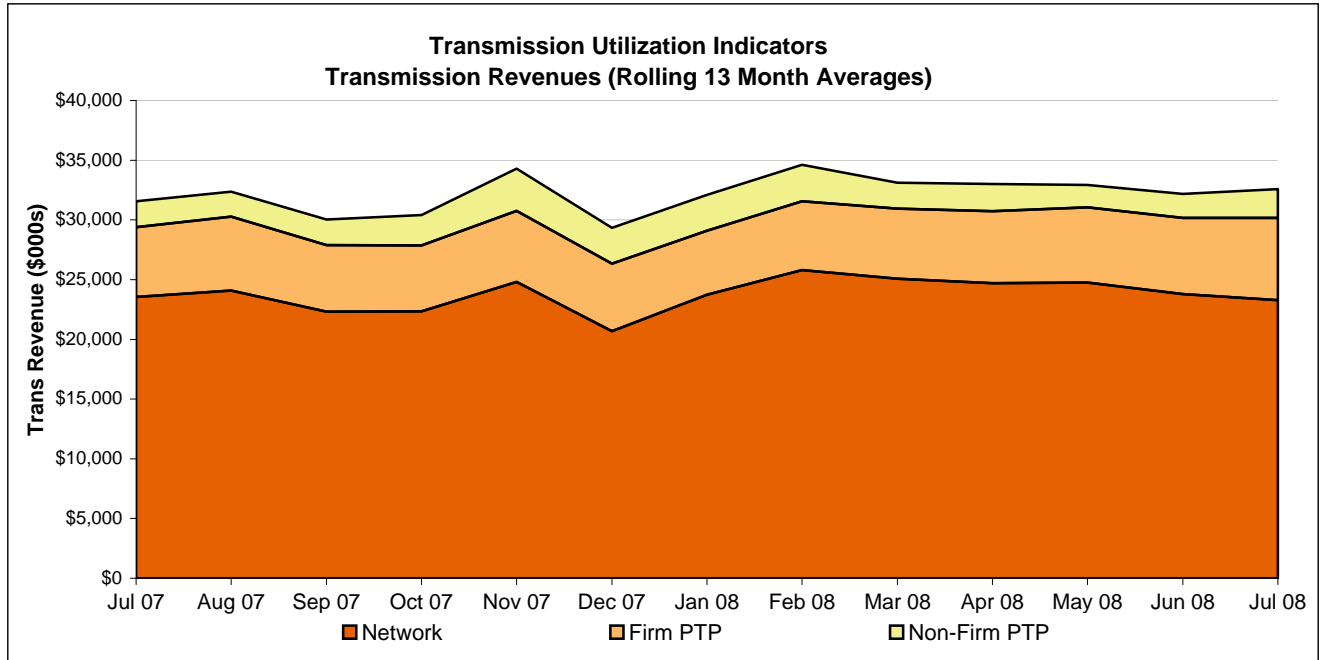


CPS1	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
>150%	7	7	7	8	6	5	4	6	5	5	5	5	5
100%-150%	9	9	9	8	10	11	12	10	11	11	11	11	11
<100%	0	0	0	0	0	0	0	0	0	0	0	0	0

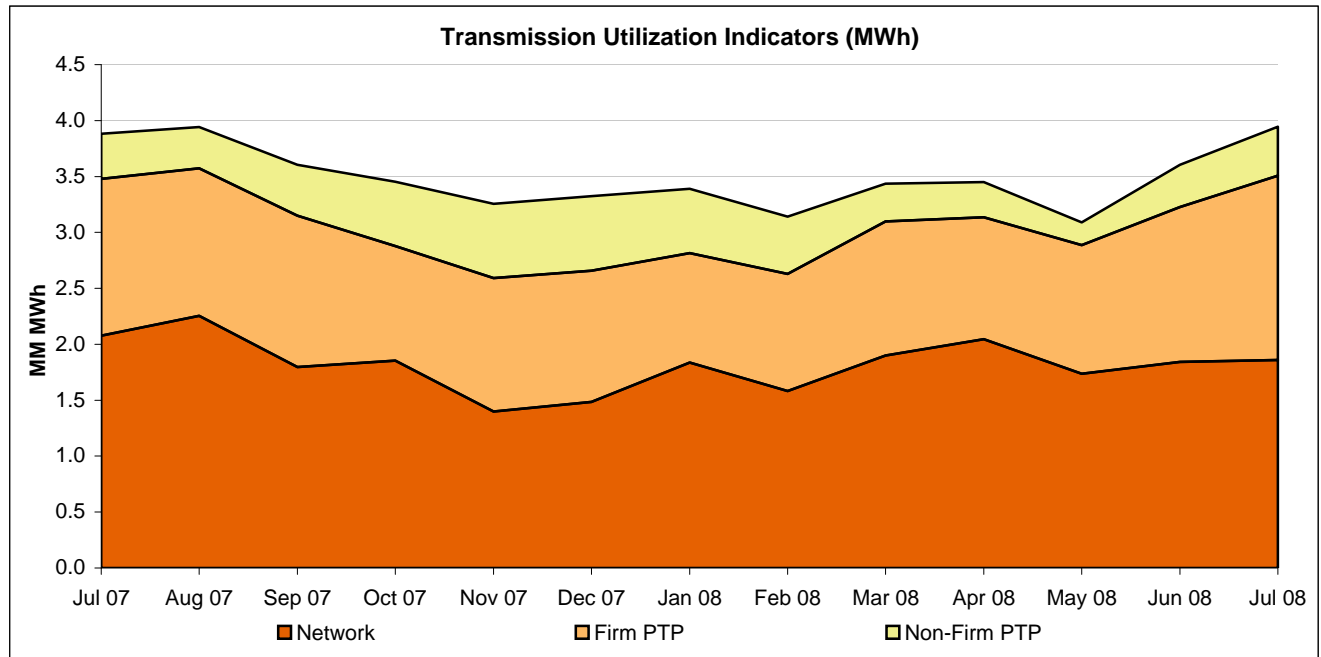
Violation if any 1 Balancing Authority has a violation in a 12 month period.



### 3. Transmission Utilization Proxy

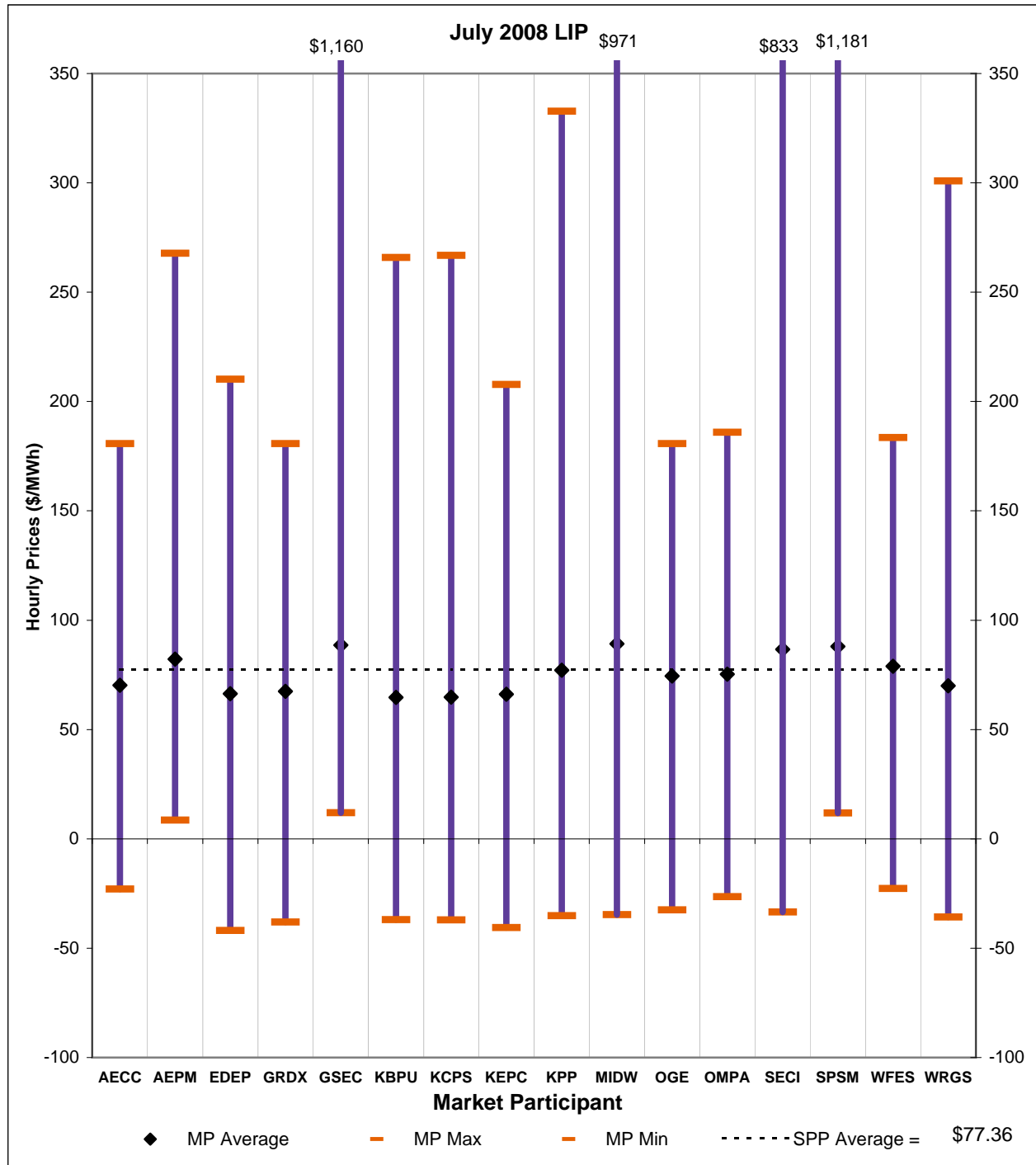


Type	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
Network (\$000)	\$23,554	\$24,094	\$22,308	\$22,356	\$24,798	\$20,672	\$23,732	\$25,798	\$25,068	\$24,701	\$24,756	\$23,804	\$23,284
Firm PTP (\$000)	\$5,841	\$6,192	\$5,589	\$5,509	\$5,951	\$5,657	\$5,357	\$5,752	\$5,877	\$6,033	\$6,308	\$6,363	\$6,889
Non-Firm PTP (\$000)	\$2,157	\$2,081	\$2,142	\$2,557	\$3,539	\$2,996	\$3,007	\$3,055	\$2,175	\$2,261	\$1,876	\$2,010	\$2,415



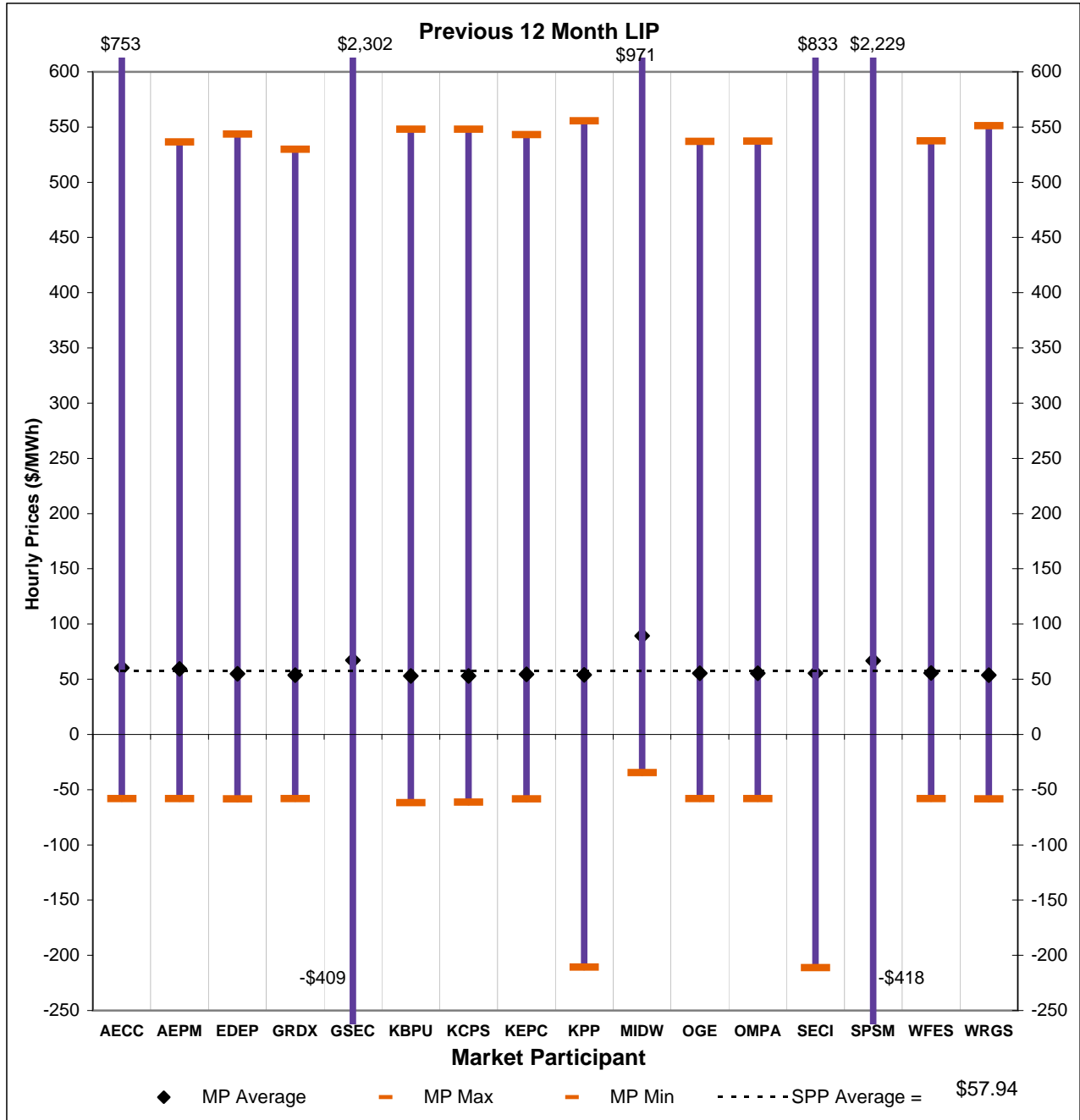
Type	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
Network (MM MWh)	2.08	2.25	1.80	1.85	1.40	1.48	1.84	1.58	1.90	2.05	1.74	1.84	1.86
Firm PTP (MM MWh)	1.40	1.32	1.35	1.02	1.20	1.17	0.98	1.05	1.20	1.09	1.15	1.39	1.65
Non-Firm PTP (MM MWh)	0.40	0.37	0.45	0.57	0.66	0.67	0.57	0.51	0.34	0.31	0.20	0.38	0.44
Current Year Total	3.88	3.94	3.60	3.45	3.26	3.32	3.39	3.14	3.44	3.45	3.09	3.60	3.94

#### 4. EIS Prices and Price Range



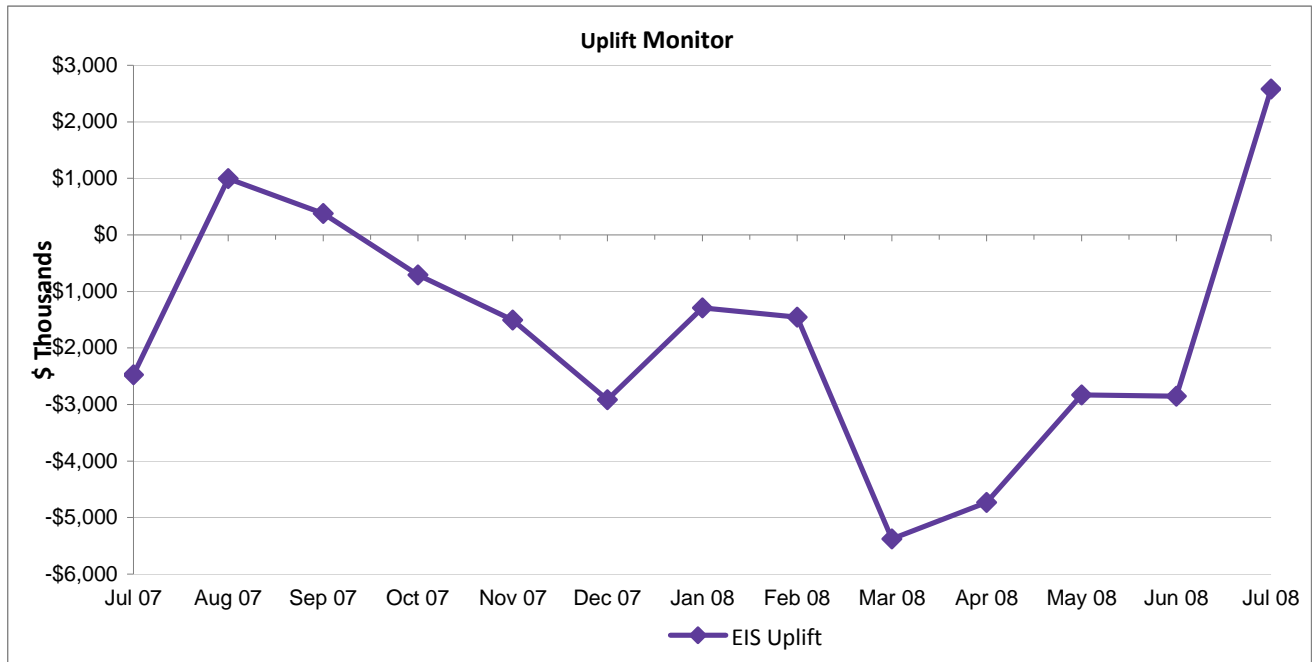
	AECC	AEPM	EDEP	GRDX	GSEC	KBPU	KCPS	KEPC	KPP	MIDW	OGE	OMPA	SECI	SPSM	WFES	WRGS
<b>MP Max</b>	181	268	210	181	1160	266	267	208	333	971	181	186	833	1181	183	301
<b>MP Avg</b>	70	82	66	67	89	65	65	66	77	89	74	75	87	88	79	70
<b>MP Min</b>	-23	9	-42	-38	12	-37	-37	-41	-35	-35	-33	-26	-33	12	-23	-36

#### 4. EIS Prices and Price Range



	AECC	AEPM	EDEP	GRDX	GSEC	KBPU	KCPS	KEPC	KPP	MIDW	OGE	OMPA	SECI	SPSM	WFES	WRGS
<b>MP Max</b>	753	536	544	530	2302	548	548	543	556	971	537	537	833	2229	537	551
<b>MP Avg</b>	60	59	55	54	67	53	53	54	54	89	55	55	55	67	56	54
<b>MP Min</b>	-58	-58	-58	-58	-409	-62	-61	-58	-211	-35	-58	-58	-211	-418	-58	-58

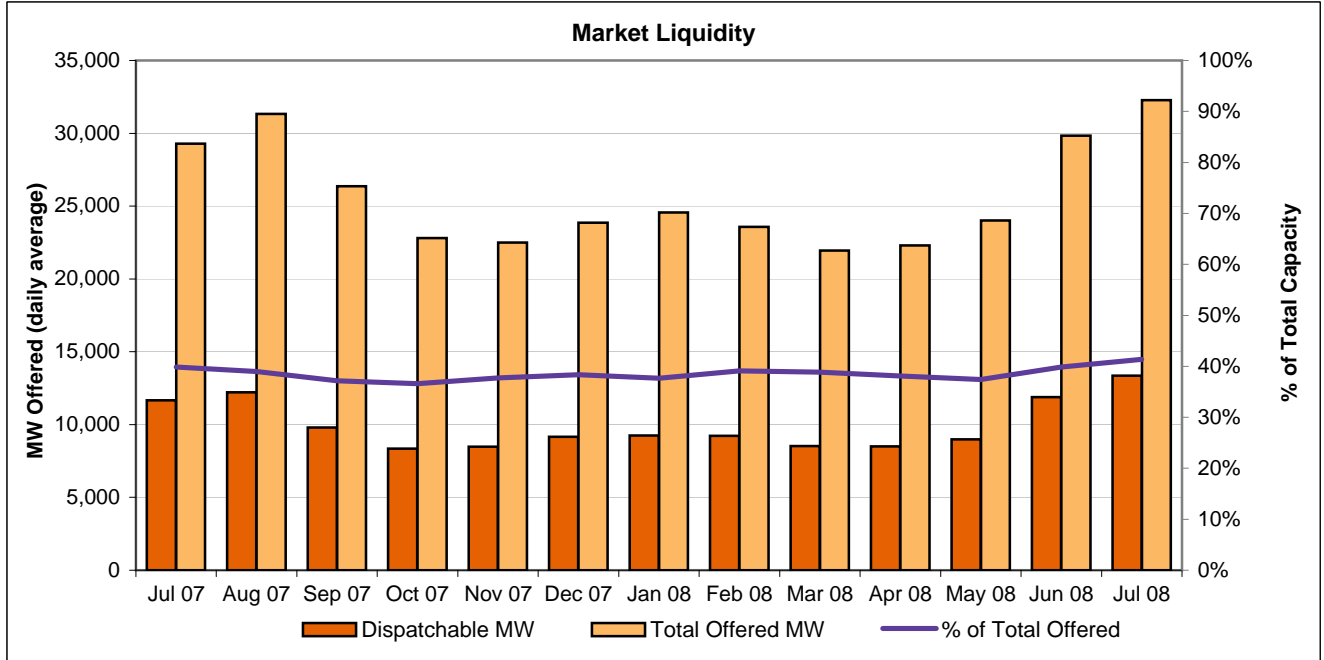
### 5. Congestion - Uplift



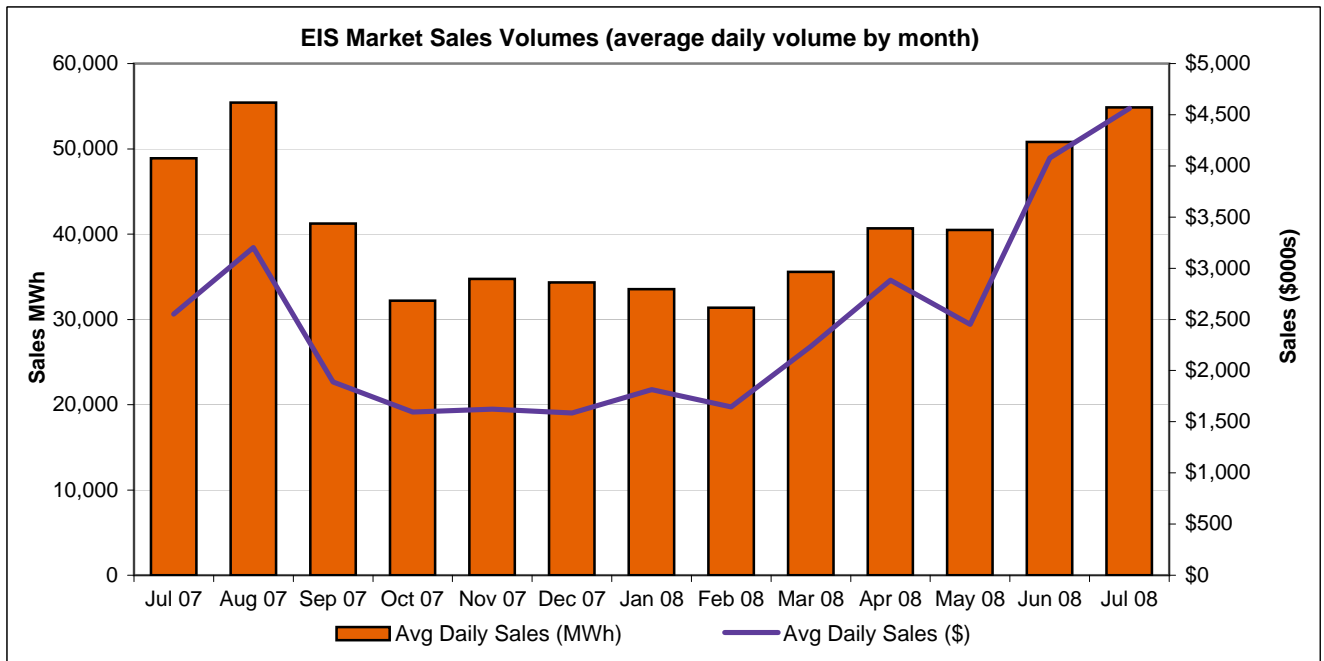
	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
EIS Uplift (\$000's)	-2,475	998	377	-709	-1,506	-2,914	-1,289	-1,455	-5,376	-4,731	-2,829	-2,852	2,582

*The RNU Task Force has been re-convened and is studying the reasons, and possible solutions, for the wide variation in RNU. The Task Force will also establish appropriate target ranges for RNU.*

## 6. Market Liquidity

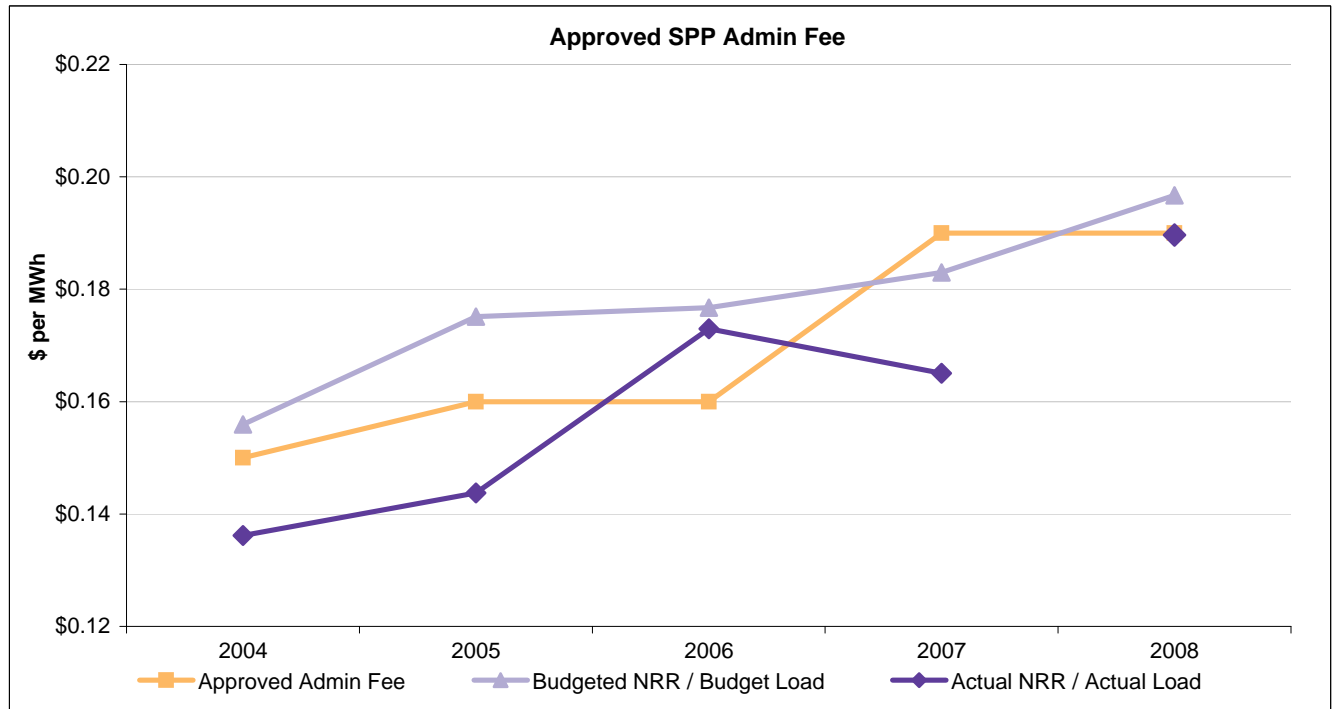


	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
Dispatchable MW	11,671	12,205	9,802	8,349	8,482	9,151	9,255	9,222	8,527	8,495	8,980	11,884	13,348
Total Offered MW	29,281	31,326	26,375	22,809	22,495	23,864	24,564	23,566	21,950	22,304	24,015	29,833	32,283
% of Total Offered	40%	39%	37%	37%	38%	38%	38%	39%	39%	38%	37%	40%	41%



	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
Avg Daily Sales (MWh)	48,886	55,410	41,230	32,204	34,747	34,325	33,541	31,372	35,581	40,661	40,499	50,812	54,867
Avg Daily Sales (\$)	2,550	3,203	1,889	1,595	1,623	1,585	1,813	1,644	2,237	2,883	2,451	4,078	4,561

## 7. SPP Admin Fee Performance



Financial Metrics

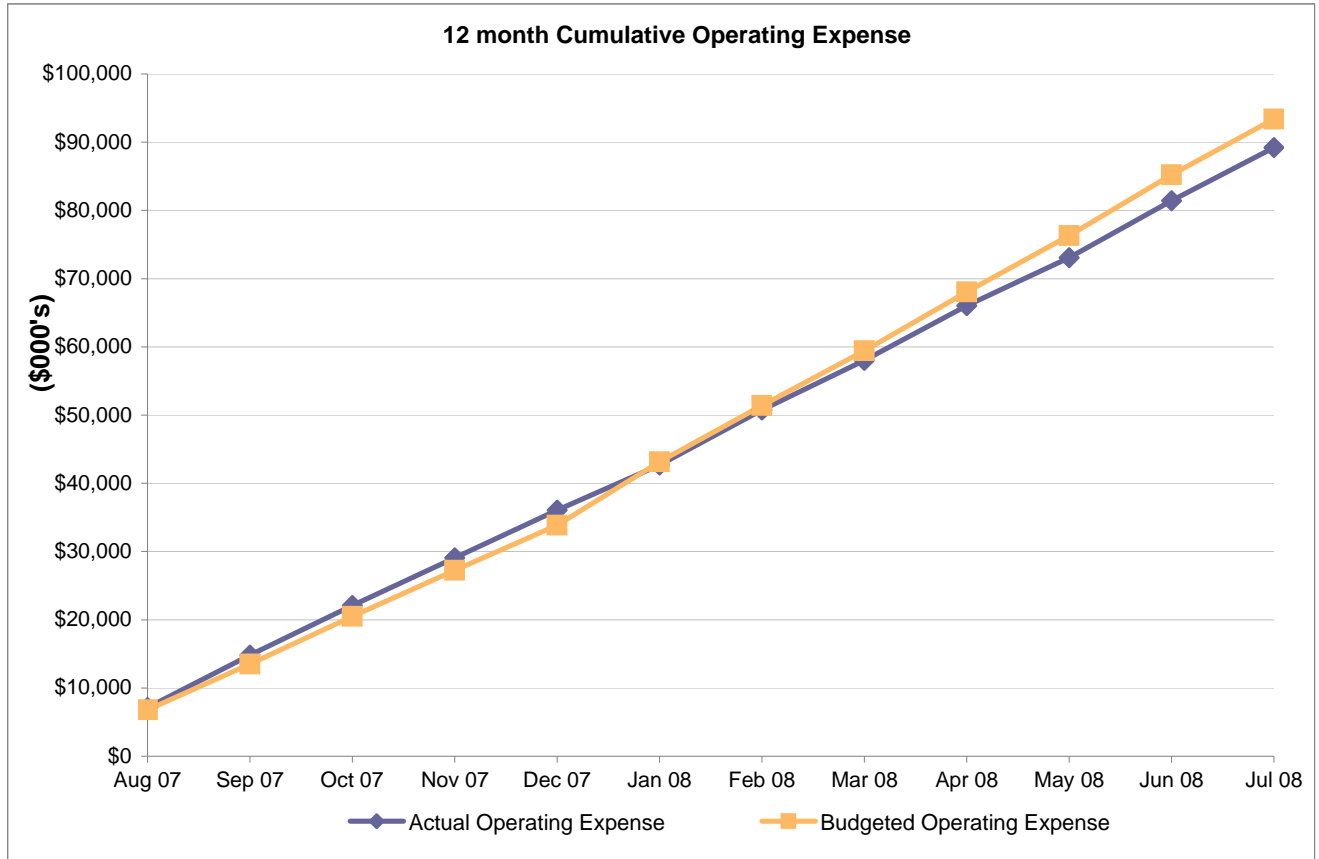
	2004	2005	2006	2007	2008
Budgeted Net Revenue Required (\$000's)	\$ 38,322	\$ 44,391	\$ 45,688	\$ 52,819	\$ 61,462
Budgeted Load (000's)	245,776	253,489	258,556	288,649	312,496
Budgeted NRR / Budget Load	\$ 0.156	\$ 0.175	\$ 0.177	\$ 0.183	\$ 0.197
Approved Admin Fee	0.15	0.16	0.16	0.19	0.19
Actual Net Revenue Required (\$000's)	\$ 33,443	\$ 38,415	\$ 49,549	\$ 49,691	\$ 32,618
Actual Load (000's)	245,571	267,239	286,446	301,053	171,995
Actual NRR / Actual Load	\$ 0.136	\$ 0.144	\$ 0.173	\$ 0.165	\$ 0.190
EIA-411 Load Growth Forecast	-0.37%	3.05%	-0.60%	1.80%	2.10%
Actual Load Growth	-1.60%	8.82%	7.19%	5.10%	

Note 1: Budgeted 2008 figures cover the entire 2008 calendar year, while actual 2008 figures cover the period through July 31, 2008.

Note 2: Actual load growth for 2008 will not be calculated until year end.

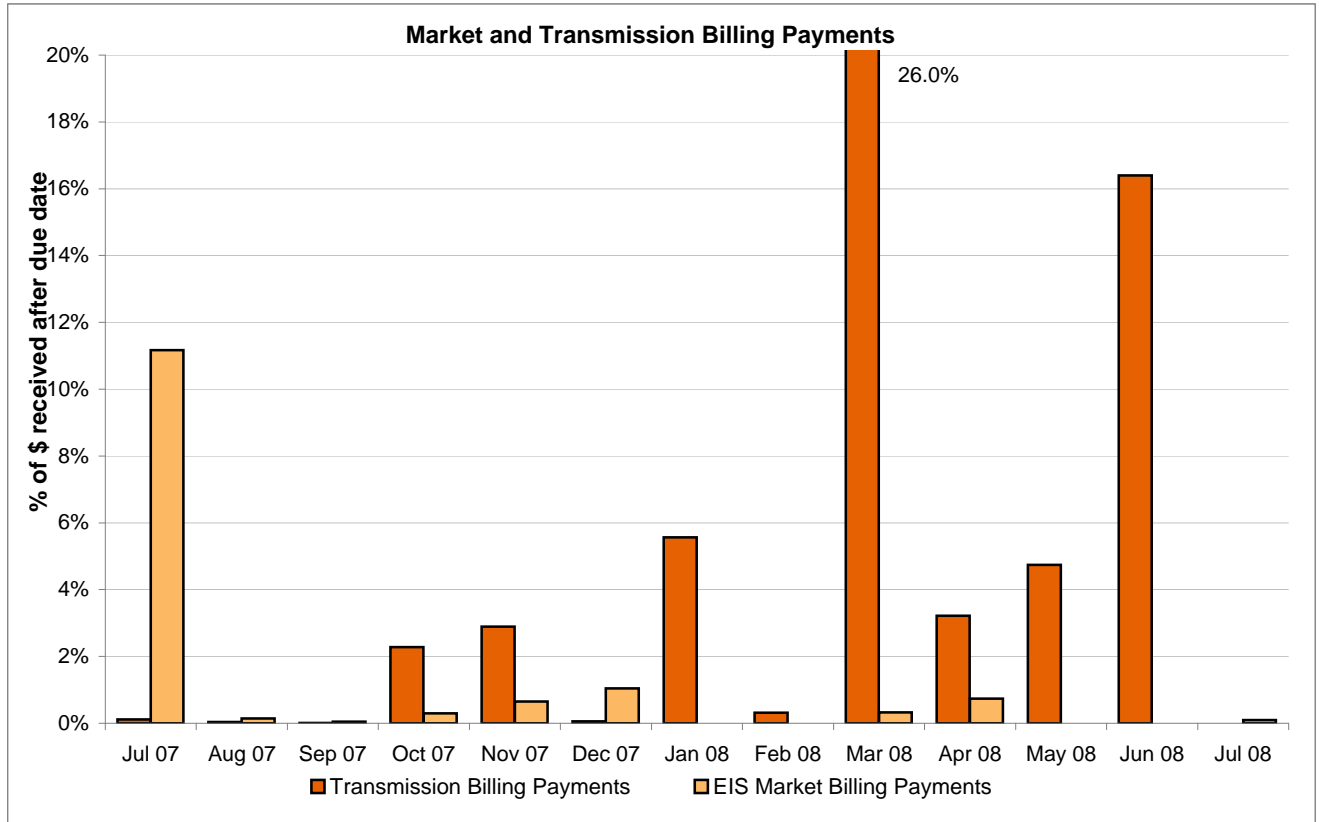
## 8. Budget Performance Monitor

Financial Metrics



<b>Cumulative</b>	<b>Aug 07</b>	<b>Sep 07</b>	<b>Oct 07</b>	<b>Nov 07</b>	<b>Dec 07</b>	<b>Jan 08</b>	<b>Feb 08</b>	<b>Mar 08</b>	<b>Apr 08</b>	<b>May 08</b>	<b>Jun 08</b>	<b>Jul 08</b>
Actual Operating Expense (\$000's)	7,123	14,815	22,113	29,069	36,048	42,673	50,751	58,040	66,038	73,083	81,448	89,193
Budgeted Operating Expense (\$000's)	6,787	13,510	20,516	27,259	33,864	43,142	51,409	59,429	68,075	76,316	85,246	93,378
Variance: Fav / (Unf)	(336)	(1,305)	(1,597)	(1,811)	(2,183)	470	659	1,390	2,038	3,234	3,799	4,186
% of Variance	-5%	-10%	-8%	-7%	-6%	1%	1%	2%	3%	4%	4%	4%

## 9. Financial Settlement Index

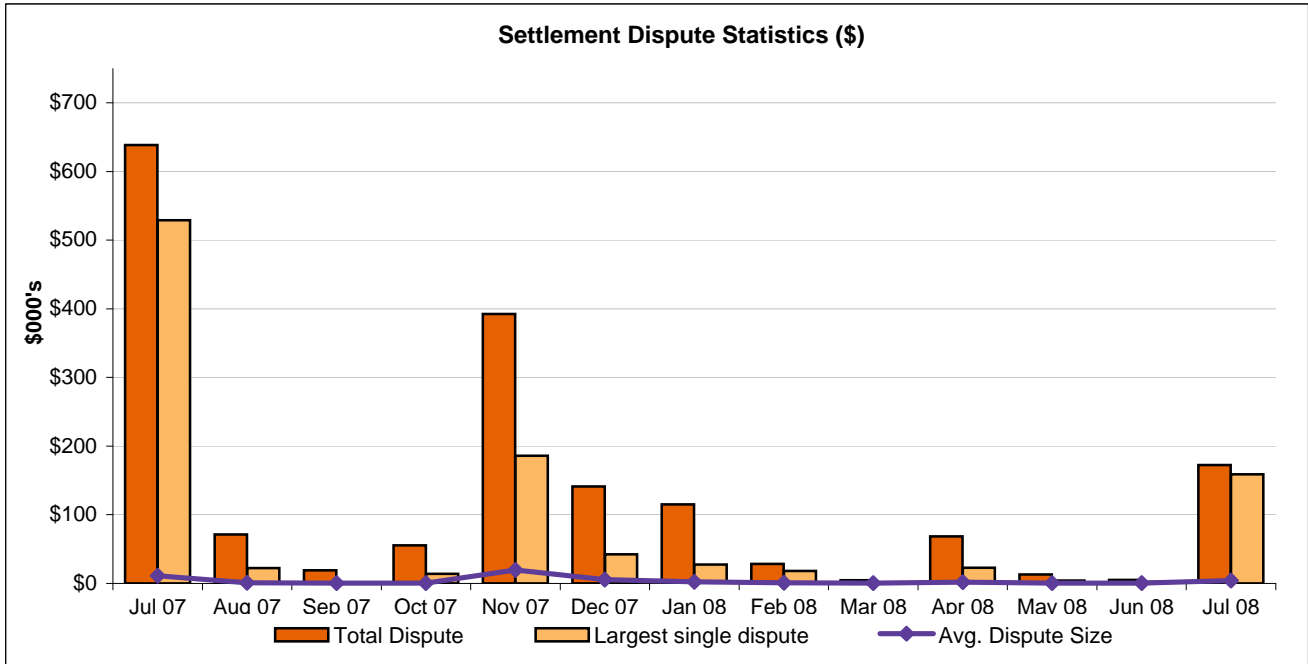


	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
% of Transmission Payment \$ Received After the Due Date	0.1%	0.0%	0.0%	2.3%	2.9%	0.1%	5.6%	0.3%	26.0%	3.2%	4.7%	16.4%	
% of Market Payment \$ Received After the Due Date	11.2%	0.1%	0.0%	0.3%	0.7%	1.0%	0.0%	0.0%	0.3%	0.7%	0.0%	0.0%	0.1%

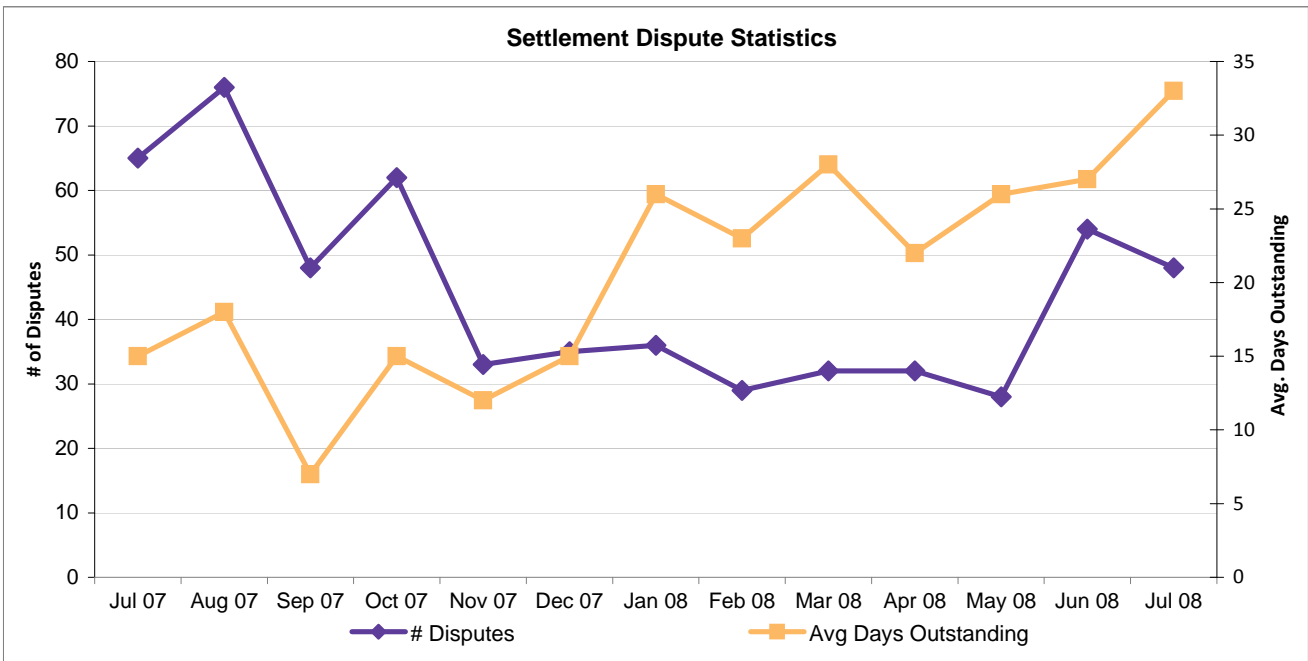
Note 1: The chart above has been modified from previous versions and now shows payments received after the due date rather than on or before the due date.

Note 2: Transmission payment data for July 2008 will not be available until after 8/26/08.

## 10. Financial Disputes Index

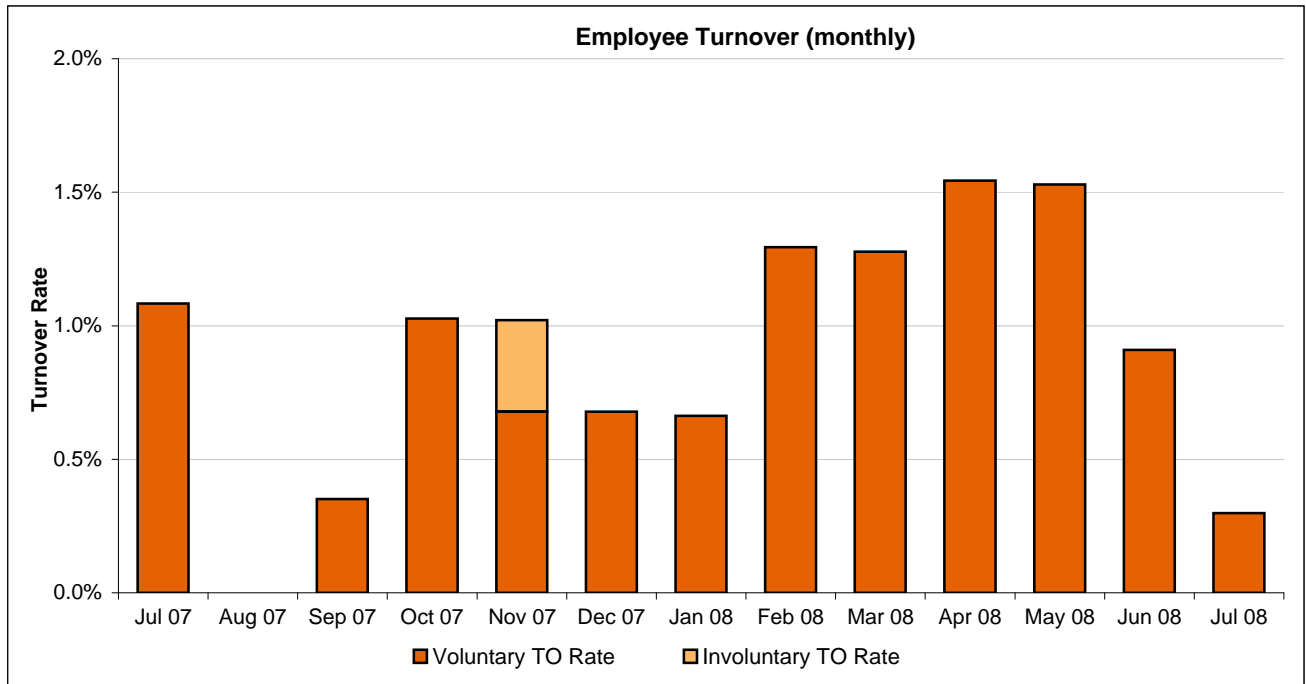


(Figures in \$000's)	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
Total Dispute	\$638.4	\$71.2	\$19.0	\$55.7	\$392.4	\$141.2	\$115.3	\$28.6	\$4.7	\$68.7	\$13.0	\$5.0	\$172.5
Avg. Dispute Size	\$11.0	\$1.0	\$0.4	\$0.7	\$19.6	\$5.4	\$2.5	\$1.0	\$0.4	\$2.0	\$0.4	\$0.3	\$4.0
Largest single dispute	\$528.9	\$22.4	\$1.3	\$14.1	\$186.0	\$42.5	\$27.6	\$18.0	\$1.2	\$23.0	\$4.4	\$2.1	\$159.2

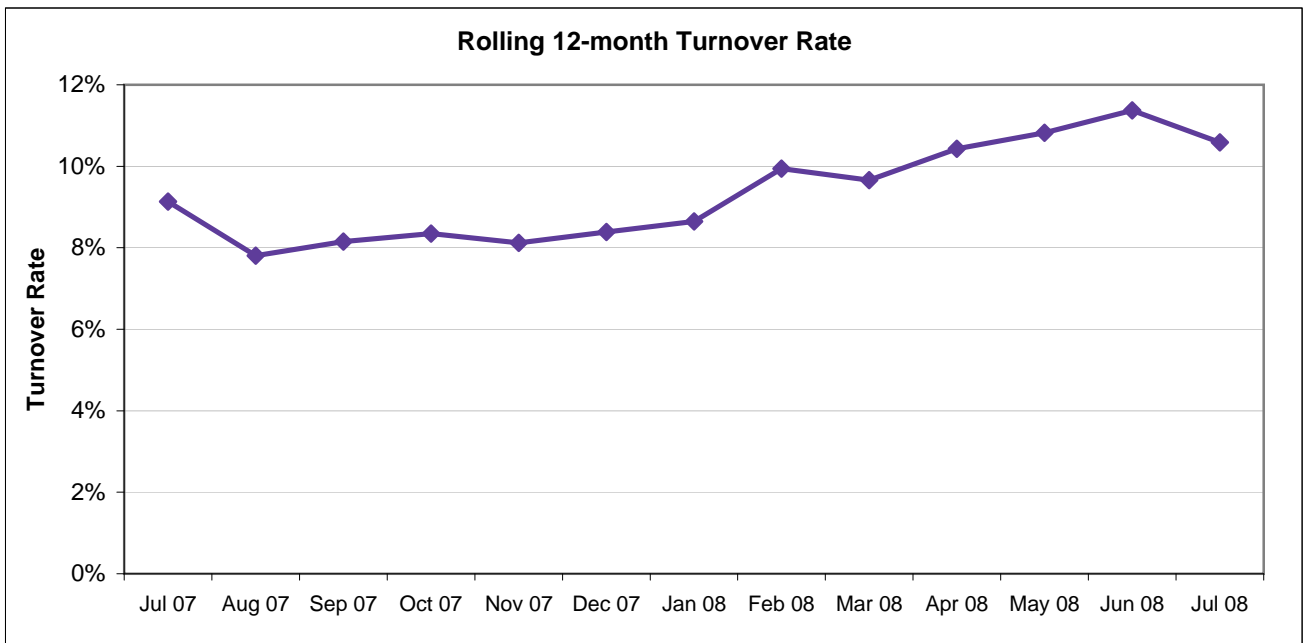


	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
# Disputes	65	76	48	62	33	35	36	29	32	32	28	54	48
Avg Days Outstanding	15	18	7	15	12	15	26	23	28	22	26	27	33

## 11. Employee Turnover

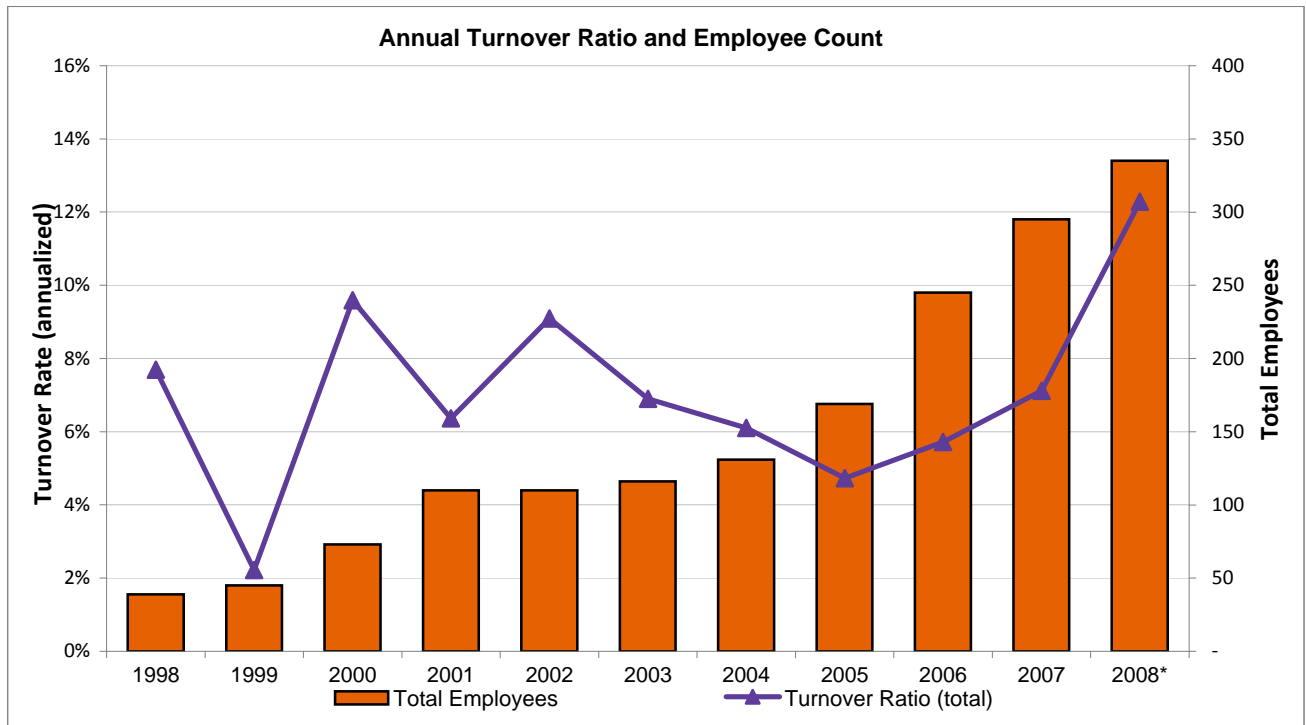


	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
Voluntary TO Rate	1.08%	0.00%	0.35%	1.03%	0.68%	0.68%	0.66%	1.29%	1.28%	1.54%	1.53%	0.91%	0.30%
Involuntary TO Rate	0.00%	0.00%	0.00%	0.00%	0.34%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Turnover (# of employees)	3	0	1	3	3	2	2	4	4	5	5	3	1



	Jul 07	Aug 07	Sep 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08
Rolling 12-month Turnover Rate	9.13%	7.80%	8.15%	8.34%	8.12%	8.39%	8.65%	9.94%	9.66%	10.43%	10.83%	11.37%	10.59%

## 11. Employee Turnover



	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008*
Total Turnover	3	1	7	7	10	8	8	8	14	21	24
Total Employees	39	45	73	110	110	116	131	169	245	295	335
Turnover Ratio (total)	7.7%	2.2%	9.6%	6.4%	9.1%	6.9%	6.1%	4.7%	5.7%	7.1%	12.3%

Note 1: Total Turnover only includes voluntary and involuntary separations; retirements and interns are not used in the calculation.

\* 2008 figures are as of the end of the reported month, and extrapolated to a full-year equivalent.



### 13. IT System Performance

#### System Availability for July 2008

System	Unplanned Outages	Minutes	Target Uptime	Actual Uptime	Resulting Market Outage	Comments
Market System (MOS)	0	0	99.98	100.00	N	
Market Portal	0	0	99.98	100.00	N	
Reliability (EMS)	0	0	99.98	100.00	N	
Reliability (ICCP)	0	0	99.98	100.00	N	
Tariff Admin (OASIS)	0	0	99.98	100.00	N	
Scheduling (RTO_SS)	0	0	99.98	100.00	N	

\* Target Uptime is calculated to be not more than 10 minutes of unplanned outages per month.

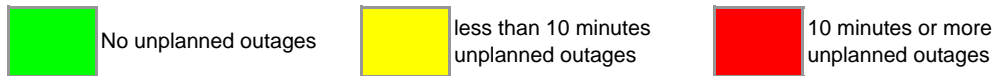
Overall EIS Market Status	<b>NO UNPLANNED MARKET OUTAGES FOR JULY 2008</b>	
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Performance

### 13. IT System Performance

#### System Availability Trends

System	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08
Market System (MOS)	100.00	100.00	100.00	99.92	99.92	100.00	99.28	100.00	99.90	100.00	100.00	100.00	100.00
Market Portal	100.00	99.83	100.00	100.00	99.97	100.00	100.00	100.00	100.00	100.00	100.00	98.47	100.00
Reliability (EMS)	100.00	100.00	99.99	99.90	99.80	99.81	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Reliability (ICCP)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.92	100.00	100.00	100.00	100.00
Tariff Admin (OASIS)	99.80	100.00	100.00	100.00	99.99	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Scheduling (RTO_SS)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00



*Historical data prior to July 2007 is not available.*

Performance

# Southwest Power Pool Metrics Definitions

## Summary of Regional Operational Performance Indicators

Two groups of metrics will be monitored to provide an overall health indication of the regional transmission system and market. There are two primary areas of interest:

- Reliability Performance Indicators, which focus on the actual operations of the transmission system and whether or not it was operated within expected limits and standards.
- Market Performance Indicators, which focus on the performance of the market in terms of overall volume, prices and level of participation.

The intent is to monitor the trends in these areas over time to identify any unexpected performance in an area. Specific performance targets may be established in the future as experience is gained with the information.

## Purpose of Reliability Performance Indicators

This sub-group of metrics is designed to measure the operations of the transmission system from a reliability perspective in the prior 12 month period. Together, they form an aggregate representation to answer the following questions:

- Were any operating limits violated in the period? (see Congestion)
- Was the system operated in compliance with the relevant control performance standards? (see Regional Control Performance)

Transmission & Market Indicators

### 1. Congestion

Provides a set of measures on the number of minutes control actions are taken to reduce the flow on one or more facilities below its System Operating Limit (SOL) or IROL limit.

- Percent of intervals binding (flow = SOL), breached (flow >SOL) and congested (either binding or breached) during the month.
- Time (in hours) during the month that flowgates were in TLR, Congested or Over the Limit.

TLR Time is the total period of time that the Reliability Coordinator (RC) issued a Transmission Loading Relief (TLR).

Binding/Breached Time is the the total period of time that the Security Constrained Economic Dispatch (SCED) engine was redispatching out of its normal economic order to relieve constraints on the system.

Over Limit Time is the total period of time that any real-time post-contingent flowgate flow was over the set rating of the flowgate.

- Figures will be reported on a rolling thirteen month basis to allow comparison to prior seasons and similar months.

### 2. Regional Control Performance

Measures the aggregate performance to the NERC CPS (Control Performance Standards) of the Balancing Authorities in the region. This indicator is set based on the number of BAs within region that are in compliance with the NERC real time control performance standards (known as BAL-001 – Real Power Balancing Control Performance and BAL-002 – Disturbance Control Performance).

- CPS1 requires BAs to be in compliance for 100% of the periods measured within the month; and CPS2 requires BAs to be in compliance for 90% of the periods measured within the month.
- For the CPS1 standard, each BA's rolling 12 month performance is grouped into one of three performance bands (<100% [red], 100-150% [yellow], >150% [green]).
- The number of BA's whose CPS1 score falls into these bands is shown; with below 100% meaning non-compliant with the standard.
- CPS2 performance is depicted in the appropriate bands (<90% [red], 90-95% [yellow], >95% [green]) based on the monthly CPS2 score rather than a rolling 12 month average.

This sub-group of indicators provides a view of the effectiveness of the EIS market in the context of answering the following questions:

- What was the value of transmission services used in the month? (see Transmission Utilization)
- What was the average wholesale price paid in the region and what was its volatility? (see Price and Price Range)
- How much of the total congestion could be resolved through market mechanisms? (see Congestion Resolved by Market)
- What was the level of available generation offered to the market and EIS related energy sales in the month? (see Market Liquidity)

### 3. Transmission Utilization

Measures the volume of transmission service scheduled in the month in terms of the transmission service revenues paid by both Network Customers and Point-to-Point customers.

- The revenues paid by transmission customers are directly related to the amount of transactions scheduled on the transmission system and therefore provide a proxy as to the utilization of the transmission system in the period.
- The figure reported will be a simple sum of the transmission service revenues paid for Network Service, Firm Point-to-Point, and Non-Firm Point-to-Point transmission service.
- Figures will be reported on a rolling thirteen month basis to allow comparison to prior seasons and similar months.

### 4. Price and Price Ranges

Shows the EIS market prices for each market participant within the footprint on both a 12-month rolling average and for the previous month. It provides a summary of the average, high and low prices in each period.

### 5. Congestion - Uplift

Tracks amount of RNU (Revenue Neutrality Uplift) charged or credited to market participants during the month. RNU ensures settlement payments/receipts for each hourly settlement interval equal zero.

- Positive RNU - SPP receives insufficient revenue and "owes" market participants.
- Negative RNU - SPP receives excess revenue, which must be credited back to market participants.
- RNU Task Force has been re-convened to look at wide variation in monthly RNU.

### 6. Market Liquidity

Measures the average daily MW capacity offered to the EIS market (dispatchable generation); presented as a percent of daily average capacity available in the hour.

- Data was taken from the Resource Plans.
- Average daily MWh sales into the EIS Market and their dollar value are shown as well.
- Although no specific performance targets have been set, the intent is to monitor the trend of this index to identify significant deviations from average.

### ***Purpose of Financial Metrics***

This group of metrics provides a view of the organization's overall financial situation in terms of both the operating costs and settlement functions carried out.

### 7. SPP Admin Fee Performance (Rolling)

Measures actual costs incurred by SPP on an annual basis and compares this to the approved Admin Fee and Budgeted Net Revenue Requirement (NRR).

<b>Financial Metrics</b>	<b>8 Budget Performance Monitor</b>	Measures the total actual operating expenses against the total budgeted operating expenses across the organization.
	<b>9 Financial Settlement Index</b>	Metric measures the timeliness of the financial settlements for both transmission billing and EIS market billing and provides a proxy for the strength of the organization's cash flow.
	<b>10 Financial Disputes Index</b>	Measures the number and value of disputes made with regards to the financial settlements of the markets. The objective in this area is twofold: (1) minimize the time to clear disputes; and (2) minimize the total value of dollars in dispute. The monthly indicators are the following three variables: Total number of disputes Total dollars in dispute Average # days to resolve disputes

<b>Learning &amp; Growth</b>	<b><i>Purpose of Learning &amp; Growth Metrics</i></b>	
	These indicators provide insights to the organization's success in maintaining and supporting its desired staffing levels and employee growth plans.	
	<b>11. Employee Turnover</b>	Measures both involuntary and voluntary turnover rates in the organization. Monthly turnover is charted on a rolling 12 month basis, while annual turnover ratio and number of employees is provided for historical purposes.

<b>Performance</b>	<b><i>Purpose of Performance Metrics</i></b>	
	These Performance Metrics are divided into two categories, quarterly and annual, which describe the frequency with which they will be monitored. The metrics in this group focus on compliance and achievement of major initiatives. Only the NERC Compliance and IT System Availability metrics are reported as part of the Metrics Report document. The other measures in this category will be reported on a periodic basis in separate reports.	
	<b>12. NERC Compliance</b>	Measures SPP's compliance with all NERC standards. Status is green unless there is a self-reported violation of any criteria during the period. This metric excludes the control performance standards which are included in the Regional Control Performance metric.
	<b>13 IT System Availability</b>	Measures availability of SPP IT Systems. Target uptime for all systems is calculated to be not more than 10 minutes of unplanned outage per month. However, 100% availability is always the ultimate goal. Boxes showing green represent 100% actual uptime; yellow represents less than 100% uptime but under 10 minutes of unplanned outage; while red represents 10 minutes or more of unplanned outage.