Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS</td>
<td>Ancillary Service</td>
</tr>
<tr>
<td>BES</td>
<td>Balancing Energy Service</td>
</tr>
<tr>
<td>DBES</td>
<td>Down Balancing Energy Service</td>
</tr>
<tr>
<td>DRS</td>
<td>Down Regulation Service</td>
</tr>
<tr>
<td>LBE</td>
<td>Local Balancing Energy</td>
</tr>
<tr>
<td>MCPC</td>
<td>Market Clearing Price for Capacity</td>
</tr>
<tr>
<td>MCPE</td>
<td>Market Clearing Price for Energy</td>
</tr>
<tr>
<td>NSRS</td>
<td>Non-Spinning Reserve Service</td>
</tr>
<tr>
<td>OOMC</td>
<td>Out of Merit Capacity</td>
</tr>
<tr>
<td>OOME</td>
<td>Out of Merit Energy</td>
</tr>
<tr>
<td>QSE</td>
<td>Qualified Scheduling Entity</td>
</tr>
<tr>
<td>RMR</td>
<td>Reliability Must Run</td>
</tr>
<tr>
<td>RPRES</td>
<td>Replacement Reserve Service</td>
</tr>
<tr>
<td>RRS</td>
<td>Responsive Reserve Service</td>
</tr>
<tr>
<td>UBES</td>
<td>Up Balancing Energy Service</td>
</tr>
<tr>
<td>URS</td>
<td>Up Regulation Service</td>
</tr>
</tbody>
</table>
Grid Operation

Daily Peak Demand

13 Month Review of Peak Demand

Peak Demand is Peak Interval Demand
Daily Average Temperature in Five Congestion Management Zones

Relative Activity Capacity Purchases – OOMC & RMR

Total Number of Days of Local Congestion Management

Contingency | Congestion Element | # of Days
---|---|---
Bowie TMPP - Patterson Street 138kv | Bowie 138/69kv auto | 8
San Angelo - Menard 138kv | Ballinger - Paint Rock 69kv | 8
Marion - Zorn & Clear Springs 345kv | Seguin - Seguin West 138kv | 6
Odessa EHV 345/138kv auto | Rexene Nylon Tap - Olefin 9w | 6
Marion - Zorn & Clear Springs 345kv | Zorn - Seguin 138kv | 4
Hill Country - Marion & STP 345kv | Schertz - Parkway 138kv | 4
Jack Country - Patterson Street 138kv | Muenster - Saint Jo138kv | 2
North Edinburg 345/138kv auto | Rio Hondo - MV Burns 138 KV | 2
Paris Sw to Valley Sw 345kv | Commerce to Commerce South | 2
San Miguel to Marion 345kv | Leon Creek to Pleasanton 138kv | 2
Sonora to Hamilton 138kv | Uvalde to Asphalt Mines 138kv | 2
Marion - Hill Country & Skyline 345kv | Geronimo - Seguin 138kv | 2

Note: 1 Unit-Day = 1 unit procured during any time period within one trade day.

Note: 1 day= units procured during any time period within one trade day. Total numbers of 1 day or less of local congestion management are not shown in the graph. Occurrences of 1 day or less are not listed in table but are totaled in graph. Indicates congestion affected by outages.
Instances of CSC Congestion

Notable Events

New Procedures/ Forms/ Operations Bulletins

- 04/18/06  SPS Intervention – Transmission & Security Desk  256
- 04/12/06  Bulletin 255 – Shift Supervisor Desk V3R24  255
- 04/05/06  VDI-JOU-Frequency Control Desk  254
- 04/05/06  VDI-JOU-Transmission & Security Desk  253
- 04/03/06  New Generator Synchronization Procedure posted  252

Significant Communication Problems

- None

OCN, Advisory, Alert, Emergency Notice and Major Disturbances

1-Apr 12:20 24:00 Transmission Alert
Loss of North Edinburg-Rio Hondo 345 kV loads MVEC Weslaco-Weslaco 138 kV.

2-Apr 10:00 24:00 Transmission Alert
Loss of North Edinburg-Rio Hondo 345 kV loads MVEC Weslaco-Weslaco 138 kV.

4-Apr 2:00 3:00 OCN
Capacity Insufficiency HE 15 to 23:00

4-Apr 3:00 09:00 Alert
Capacity Insufficiency HE 15 to 23:00

4-Apr 19:00 22:00 Transmission Emergency
Post Contingency Overload in Del Rio Area

5-Apr 19:00 22:00 Transmission Emergency
Post Contingency Overload in Del Rio Area

6-Apr 19:00 22:00 Transmission Emergency
Transmission Emergency Notice-Post Contingency Overload in Del Rio Area

7-Apr 15:00 24:00 Transmission Alert
Loss of North Edinburg-Rio Hondo 345 kV overloads cross valley 138 kV.

7-Apr 17:00 23:00 Transmission Alert
Loss of San Miguel 138/69 kV tr loads Derby-Pearsall 69 kV.

11-Apr 7:51 10:28 Transmission Alert
Loss of BP Chemical Vistron to North Carbide 138 kV will result in islanding and possible loss of load at BP Chemical Vistron.

11-Apr 7:39 10:28 Transmission Emergency
Loss of Amoco Chocolate Bayou to Webster 138 kV will result in an islanding and possible loss of load at Amoco Chocolate Bayou.

11-Apr 8:47 10:28 Transmission Alert
Loss of Diamond Shamrock Battleground to SR Bertron 138 kV will result in islanding and possible loss of load at Diamond Shamrock Battleground.

12-Apr 19:00 23:00 Transmission Emergency
Post Contingency Overload in Del Rio Area.

16-Apr 13:20 18:30 Transmission Emergency
Transmission Alert
Loss of Lake Pauline 138/69 kV tr overloads Vernon - Chillicothe 69 kV.

17-Apr 15:25 Implemented Step 1 of the Emergency Electric Curtailment Plan

17-Apr 15:34 Step 2 of the Emergency Electric Curtailment Plan and deployed 1150 MW of LaaRs

17-Apr 16:13 Step 4 of the Emergency Electric Curtailment Plan and shed 1000 MWs of firm load

17-Apr 18:10 All firm load restored

17-Apr 18:26 From Step 4 to Step 2 of the Emergency Electric Curtailment Plan and picked up LaaRs

17-Apr 18:48 From Step 2 to Step 1 of the Emergency Electric Curtailment Plan

17-Apr 19:20 Ended Emergency Electric Curtailment Plan
Security Alert Stage/ Threatcon/ Related issues

Major Computer System Problems/Enhancements/Fixes

4/18 14:20 Raise instruction given in the South Zone.

Update on New Generation
None

Max / Min Temperature

<table>
<thead>
<tr>
<th>Max</th>
<th>Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>25.6</td>
</tr>
</tbody>
</table>

None/Yellow

Major Weather Related Power System Problems

None

New SPS & RAP's

Goldthwaite-Evant 138 kV loads Goldthwaite 138/69 kV Tr.

Major system Voltage problems/ Load Shed incidences

4/18 14:20 Raise instruction given in the South Zone.
Market Operation

Ancillary Services

13 Month Review of Average Hourly Procurement by Ancillary Service

Average Hourly Procurement by Ancillary Service
Balancing Energy

Average Balancing Energy Deployed
13 Month Review of UBES Deployment

13 Month Review of DBES Deployment

Balancing Energy
Energy Purchased Through ERCOT

(PRR404: Any Balancing Energy scheduled through the ERCOT Scheduling process)
Balancing Energy

Average MCPE
13 Month Review of MCPE

Average Fuel Index

Balancing Energy
Average Shadow Price
Note: There is not a price for self-arranged Ancillary Services. MCPC is used to calculate the cost for self-arrangement.
13 Month Review of OOMC Cost At Final Settlement and True Up

OMMC Payment (Total: $6.76)
RPRS Step 1 (Total: $1.37)
RPRS Step 2 (Total: $0.45)

RPRS Step 1: RPRS procured for local congestion.
RPRS Step 2: RPRS procured for zonal congestion and capacity insufficiency.

RMR Net Cost (Initial Settlement)
Total Net Cost $7.05 Million

OMMC Payment (Total: $106.97)
RPRS Step 1
RPRS Step 2

RPRS Net Cost (Initial Settlement)
*Note:

1. Trade dates thru 4/30/06 complete with Initial Settlement data, using estimated eligible costs.

2. Trade dates thru 3/20/06 complete with Final Settlement data, using verifiable actual cost data provided by the RMR Unit owner.
Cost Summary

13 Month Review of Cost Summary

Note:

1. DBES cost is a credit to system costs and therefore is shown as a negative number here to differentiate it from the other types of Reliability Costs.

2. BES deployment costs include two parts: the cost for Power Balance and the cost for CSC Congestion. Due to Relaxed Balanced Schedule, the cost paid for Power Balance covers both the difference between ERCOT load forecast and QSE’s schedule and the amount of energy that QSEs intend to buy from Real-Time Energy market.

The historical data gathered from the monthly reports has been compiled into an Excel workbook which will be updated and posted along with this report at the following link:


Please contact Shuye Teng at 512-248-3998 or email at steng@ercot.com if you have any questions.
Addendum: Map of Local Congestion Areas (charts on pages 36 & 37)