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Grid Operation
Peak Demand for the Month: 1/27/2004 7:15 42702 MW

Daily Peak Demand
January 2004

Monthly Peak Demand
January 2003 - January 2004

Note: Peak Demand is Peak Interval Demand
Trend of Temperature in Five Congestion Management Zones

- Houston
- North
- South
- West
- NorthEast
**OOMC and RMR Activity**

Relative Activity Capacity Purchases - OOMC & RMR

January 2004

![Bar chart showing OOMC and RMR Activity](image)

- **DFW**: 64 Unit-Days
- **West Rio Grande**: 57 Unit-Days
- **Laredo Area**: 43 Unit-Days
- **East Rio Grande**: 10 Unit-Days, 31 Unit-Days (OOMC), 31 Unit-Days (RMR)
- **Abilene Area**: 4 Unit-Days, 4 Unit-Days (RMR)
- **Corpus Christi Area**: 27 Unit-Days
- **San Angelo Area**: 31 Unit-Days
- **Western Area**: 7 Unit-Days
- **Houston Area**: 4 Unit-Days

*Note: 1 Unit-Day = 1 unit procured during any time period within one trade day.*
## Post-Contingency Violation occurrences for January of 1 day listed below:

- Allen SW-Renner-PTennyson
- Big Brown-Venus
- CPSES - DCSES – WHSES
- Graham-Abilene-Sweetwater
- Lon Hill-Whitepoint
- Lytton-Zorn
- Midland - Odessa
- Miller - Weatherford
- Morgan-Odessa
- North-Houston
- Odessa-Moss Sw
- Shamberger-Royse Sw

## Base Case Violation Occurrences for January listed below:

- Big Foot XFMR
- Lopeno-Falcon
- OKLA-SW Vernon
- Rio Pecos XFMR

*Days of units purchased for some time in the area described. Data taken from daily reports and is approximated for global overview purposes only.*
Transmission Congestion Management
CSC Congestion

Instances of CSC congestion

Number of intervals

EN  SN  NH  SH  WN

0  10  20  30  40  50  60

1/1  1/2  1/3  1/4  1/5  1/6  1/7  1/8  1/9  1/10  1/11  1/12  1/13  1/14  1/15  1/16  1/17  1/18  1/19  1/20  1/21  1/22  1/23  1/24  1/25  1/26  1/27  1/28  1/29  1/30  1/31
Notable Events

New Procedures/ Forms/ Operations Bulletins

<table>
<thead>
<tr>
<th>Date</th>
<th>Bulletin Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/08/2004</td>
<td>59</td>
<td>Verbal Dispatch Exception (Temporary Work Around) Frequency Control Desk</td>
</tr>
<tr>
<td>1/08/2004</td>
<td>60</td>
<td>Verbal Dispatch Exception (Temporary Work Around) Transmission &amp; Security Desk</td>
</tr>
<tr>
<td>1/21/2004</td>
<td>61</td>
<td>Revision to Shift Supervisor section of the Operations Procedure Manual (procedure to allow unit testing when constraints are active)</td>
</tr>
<tr>
<td>1/26/2004</td>
<td>62</td>
<td>Revisions to Shift Supervisor Desk</td>
</tr>
</tbody>
</table>

Security Alert Stage/ Threatcon/ Related issues

Security Threat Alert Orange (High) through 11:00 a.m. on January 9th.

Security Threat Alert lowered to Yellow (Elevated) on January 9th at 11:00 a.m. is response to Homeland Security and the DOE change of status from Orange to Yellow.

EECP Occurrence

None.

Major Weather Related Power System Problems

None.

Major system Voltage problems

None.

OCN, Advisory, Alert, Emergency Notice and Major Disturbances

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/06/2004</td>
<td>Weather Advisory issued for freezing temperatures and gas curtailments</td>
</tr>
<tr>
<td>1/06/2004</td>
<td>Weather Advisory issued for freezing temperatures and gas curtailments 00:00 to 12:00.</td>
</tr>
<tr>
<td>1/26/2004</td>
<td>Issued OCN at 18:00 due to gas curtailments and freezing weather. This was extended and in effect through January 30th.</td>
</tr>
<tr>
<td>1/26/2004</td>
<td>20:20 to 24:00 Transmission Alert due to West Levee #2 above limit.</td>
</tr>
<tr>
<td>1/27/2004</td>
<td>07:40 to 13:30 Transmission Alert issued for Lopeno-Falcon 138 kV.</td>
</tr>
<tr>
<td>1/28/2004</td>
<td>06:30 to 23:00 Transmission Alert issued for Lopeno-Falcon 138 kV.</td>
</tr>
<tr>
<td>1/29/2004</td>
<td>07:40 to 23:00 Transmission Alert issued for Lopeno-Falcon 138 kV.</td>
</tr>
</tbody>
</table>

Significant Communication Problems

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/01/2004</td>
<td>00:00 to 00:15 Balancing Energy Market held due to year end zone changes.</td>
</tr>
<tr>
<td>1/07/2004</td>
<td>19:00 to 19:55 Portal down.</td>
</tr>
<tr>
<td>1/15/2004</td>
<td>Held 07:30-08:00 deployments due to MOI being down. A process error caused the database to stop.</td>
</tr>
</tbody>
</table>
Major Computer System Problems/Fixes

Load Shed incidences
1/18/2004  21:05  170 MW interruptible Responsive Reserve actuated.

Update on New Generation
No new generation approved for synchronization in the month of January.

Max / Min Temperature
Max:  82°F  SW
Min:  13.5°F  NW

New SPS & RAP’s
None.

Other
Maximum LaaR threshold for RRS remained at 50%.
Market Operation

Ancillary Services
Average Deployment by Ancillary Service
January 2004

Average Deployment by Ancillary Service
January 2003 - January 2004
Balancing Energy

Average Balancing Energy Deployed
Average UBES Deployment in Five Zones
January 2004

Average DBES Deployment in Five Zones
January 2004
Balancing Energy

% of Total ERCOT Energy Requirement
Balancing Energy

Average MCPE
Balancing Energy

Average Shadow Price
Cost Summary
Ancillary Service Capacity Cost (in Million $)
(Total: $34.04)

Ancillary Service Deployment Cost (in Million $)
(Total w DRS: $.66 Total w/o DRS: $3.74)

Note: There is not a price for self-arranged Ancillary Services. MCPC is used to calculate the cost for self-arrangement.
Estimated OOMC Cost At Final Settlement
January 2004

Note:
All OOMC’d units are paid Generic Start-Up Cost and Generic Operational Cost in Initial Settlement. The Start-Up payment for some units will be taken back in Final Settlement if those units did not have an actual startup.

OOMC Cost provided in this chart is an estimation because of the potential of disputes before Final Settlement. This chart will be updated after Final Settlement is completed.
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 difference between QSE’s Relaxed scheduled load and the load it would schedule should RBS were not allowed. The cost for Power Balance is not further divided accordingly because currently we do not have a way to differentiate these two types of Power Balance costs.
Please contact Shuye Teng at 512-248-3998- or email at steng@ercot.com should you have any questions.