

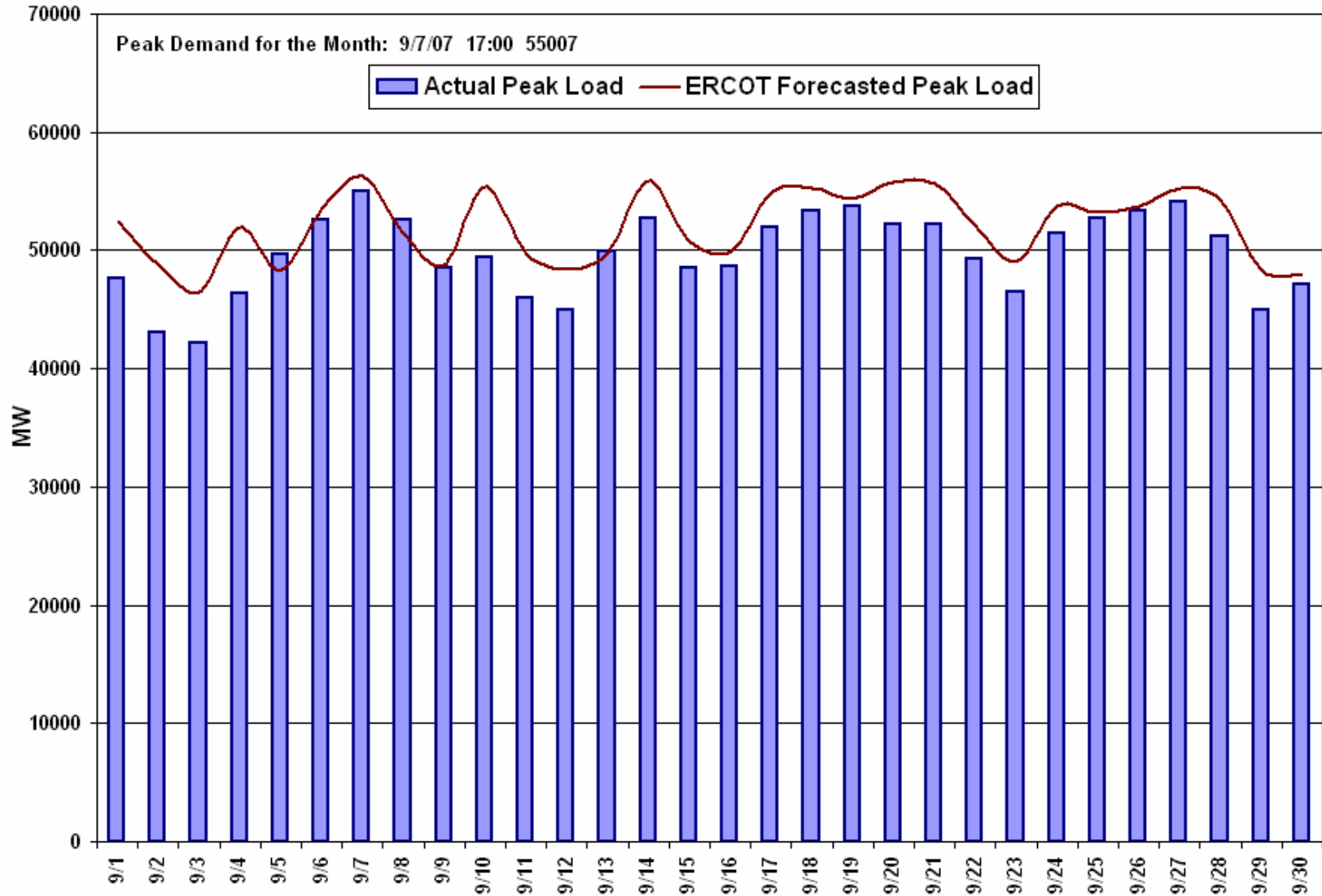


# September 2007 Grid Operations

October 16, 2007

- **Peak Demands: Actual vs. Forecast**
- **Load Forecast Performance**
- **Out of Merit Capacity Order (OOMC) & Reliability Must Run (RMR) Purchases**
- **Zonal Congestion**
- **Significant System Incidents**
- **Advisories, Alerts and EECs**
- **Other Items**

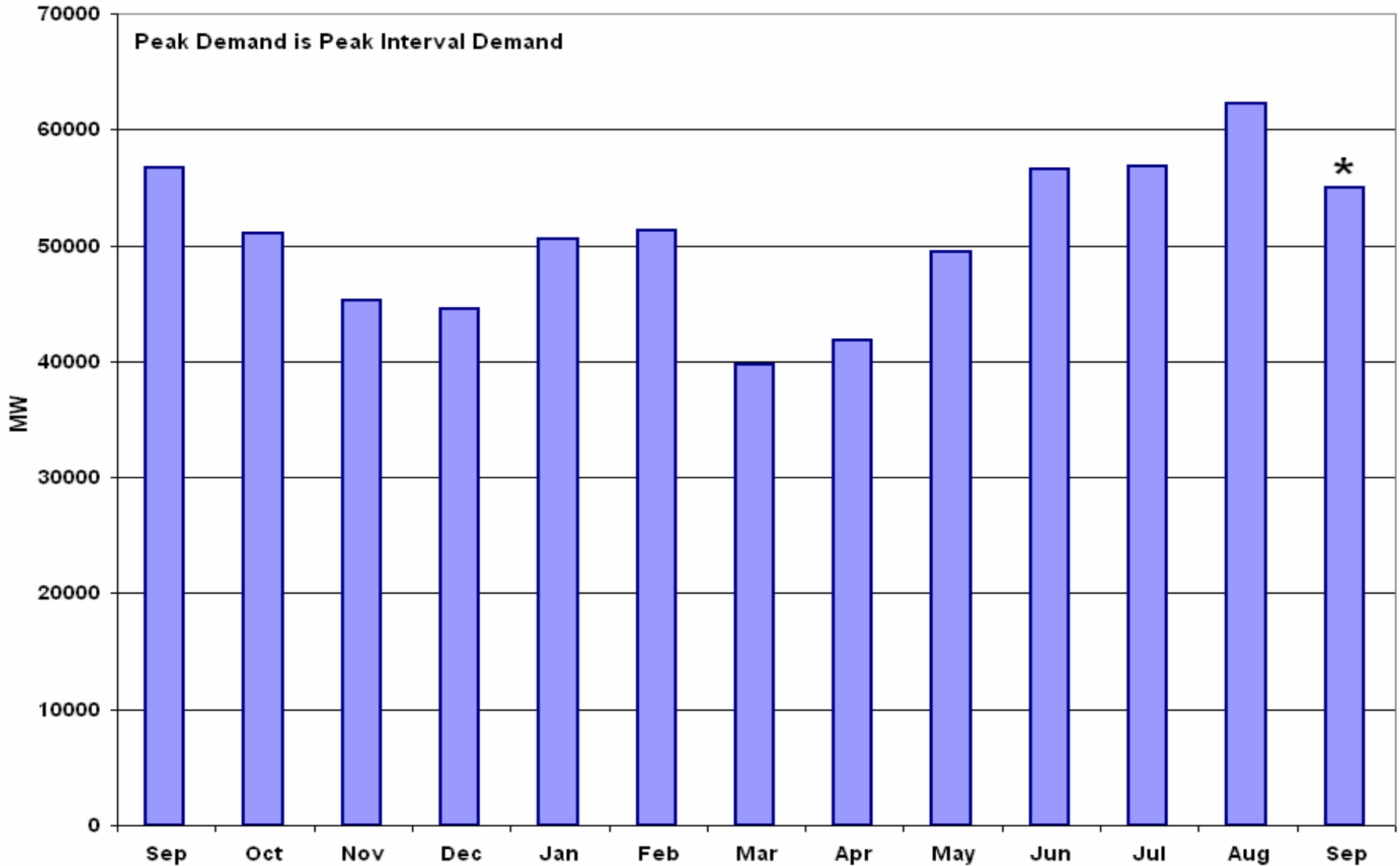
# Daily Peak Demands: Hourly Average Actual vs Forecast



Note: Preliminary data obtained from EMS hourly averages.

October, 2007

# Monthly Peak Demands: Actual

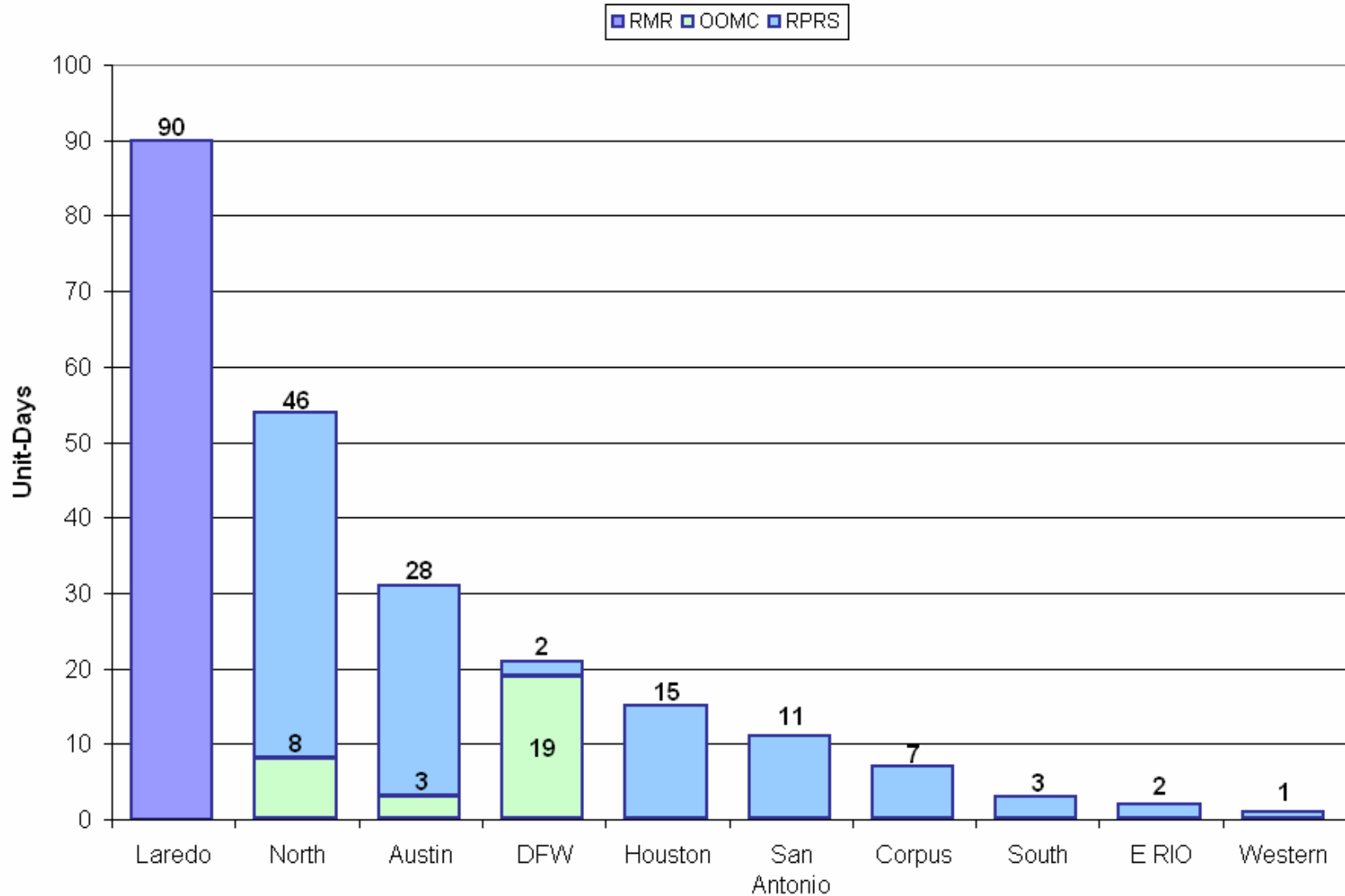


(\*) Preliminary Data obtained from EMS Hourly Average Peak Demand

# Load Forecast Performance in September 2007

	Mean Absolute Percent Error (MAPE) for Mid-Term Load Forecast (MTLF) Run at 16:00 Day Ahead				
	2004 MAPE	2005 MAPE	2006 MAPE	2007 YTD MAPE	September 2007 MAPE
Average Annual MAPE	4.08%	4.56%	3.79%	3.65%	3.78%

# Capacity Purchases for RMR OOMC & RPRS to Manage Local Congestion in September 2007



# Zonal Congestion

<b>CSC</b>	<b>Sept 07 Days</b>	<b>Sept 06 Days</b>	<b>Last 12 Months Total Days</b>
<b>North – Houston</b>	6	10	78
<b>South – Houston</b>	0	7	89
<b>North – West</b>	1	3	24
<b>West – North</b>	1	2	13
<b>South – North</b>	0	2	16

# Significant System Incidents in September 2007

- **September 5<sup>th</sup>**
  - Simultaneous loss of a 345 kV double circuit and two units tripped at a total of 1084 MW. Deployed LaaRs
    - A tornado caused two 345 kV towers to collapse. Significant voltage and current swings caused the units to trip.
- **September 6<sup>th</sup>**
  - Special Protection System (SPS) Activation:
    - A line outage increased the flow on the SPS monitored element. SPS acted as intended.
- **September 6<sup>th</sup>**
  - 17:12 Simultaneous loss of a 138 kV circuit and 10 Wind Farms totaling 447 MW.
    - Storm was reported in the area. The 138 kV line tripped due to a fallen tower.



- **Advisories issued for Adjusted Responsive Reserve (ARR) below 3000 MW.**
  - Issued 24 Days.
- **Alerts issued for ARR below 2500 MW.**
  - Issued 9 Days.
- **Transmission Alerts (Operation above single contingency limits):**
  - Loss of Kingsville – Alice 138 kV line loads Falfurrias 138/69 kV Auto.
  - Loss of Hondo – Moore 138 kV line loads Oaks – Poteet 69 kV line.
  - Loss of San Miguel 138 kV – San Miguel 69 kV line and transformer loads Derby – Pearsall 69 kV line.
- **EECP Step 1**
  - September 5<sup>th</sup>: 8:04 – 9:33
    - Due to the result of the DCS Event and load pick up for the morning.

- **September 21<sup>st</sup> RPRS failed to clear as scheduled:**
  - Dynamic Ratings data file was corrupted during data base update
- **Sharyland DC Tie is being tested.**
  - Testing is scheduled for October 4<sup>th</sup> – 9<sup>th</sup>.
  - ERCOT Operation Engineers ran studies to establish times for testing to ensure reliable operations in that area.
  - Schedule for release later this year.