



# Load Resource Participation in the Nodal Market

ERCOT Staff

**DSWG Meeting**

**1/7/2011**

- **What's New**
  - MIS Posting of Performance Metrics and other data
  - Outage Scheduling
- **What's Changed**
  - AS Qualification Test Procedures
  - Fully Integrated Network Model and Downstream Databases
  - TDSP System Outages and Impact on Load Resources

- **Public Area**
  - QSE Qualification Test Procedures
  - Resource Specific Qualification Test Procedures
- **Secure Area**
  - Responsive Reserve Performance Report for Generators and CLRs
  - Responsive Reserve Performance Report for Non-CLRs
  - Non-Spinning Reserve Performance Report for Generators, CLRs and Non-CLRs
  - Reports will be issued even if there are no deployments
- **Certified Area**
  - LR and QSE AS Qualification Test Reports
  - Annual Load Shed Test Reports
  - Group 1 and Group 2 Deployment Stacks for each day

- **RRS and NSRS Testing Procedures for NCLRs are basically the same as zonal**
- **New Telemetry Requirements**
- **New Requirement to Change Schedule when deployed**
- **Criteria for a Resource to successfully deploy—must deploy at least 95% of Scheduled Quantity within 10 minutes to Pass**
- **Totally New Procedure for CLRs providing RRS, NSRS and Reg Up and Reg Down Service**
- **CLRs must pass both a RRS test and a Regulation test to provide those services**

- **Most Registration Changes will require a change to the Network Operations Model and the Downstream Databases**
  - QSE Changes, RE Changes, Unit Parameter Changes, Physical Changes in the Configuration of the Resource
  - No Affect due to personnel changes
- **All changes affecting the Network Operations Model and Downstream systems must take place on a NOM Database Load**
  - (Schdule Link: <http://www.ercot.com/gridinfo/transmission/opsys-change-schedule>)
  - Changes normally require 90 days notice
  - If you are requesting an Interim Update, also submit a justification
  - Requested dates should be reflected in the NCI or Load RARF form
  - Change of QSEs requires you to submit an initial LRARF showing the stop dates and then a new LRARF showing the new parameters (they are processed individually in sequence)
  - Changes of QSEs will result in LRs not being able to participate in DAM AS markets on the Operating Day that corresponds to the start date

- **TDSP takes an outage on a transmission line but transfers all Load to other circuits**
- **In this case the Load is still available to be deployed but the ERCOT systems and tools all see it as being unavailable for deployment**
- **Unintended result is that the Load Resource will not be allow to submit offers or self arrange using that Resource**
- **Has already affected at least two different QSEs**
- **Can also be impacted by an extension to the outage**

## Questions about how the system evaluates performance in real time

- System operators are looking at a number of parameters
  - Telemetered Responsibility compared to COP
  - Telemetered Responsibility compared to Schedule, MPC-LPC, and Real Time Power Flow
  - COP compared to Responsibility over upcoming hourly time periods
- Shortages can result:
  - Phone calls to update unit status, COPs, and telemetry
  - Initiation of a SASM to purchase short amounts of capacity
- Once a Deployment occurs, the evaluation methodology will take into account actual deployment performance (initially at a QSE level and then on a unit specific level)