



Nodal Market Trials Testing for Load Resources

ERCOT Staff

DSWG Meeting

9/10/2010

Simulated Load Resource Deployment Test – 8/30 and 8/31

– Test Script/Procedure Highlights

- DAM run on 8/30
- COPS updated by QSEs
- Group 1 and Group 2 Assignments made after DRUC
- Telemetry updated by QSEs going into the Adjustment and Operating Period
- Simulated a system wide deployment on 8/31
- XML and VDI issued to Group 1 followed by similar set up instructions for Group 2
- Resources recalled all at once using XML and VDI

Simulated Load Resource Deployment Test – 8/30 and 8/31

– Observations

- Amount of NCLR offers plus self arranged NCLR providing RRS exceeded 1150 MW
- Approximately 200 MW of offers were not selected
- Several QSEs did not have COPS that reflected the amount of RRS that was self arranged or awarded
- Significant number of bad Resource status codes-OUTL, ONRL, ONRRCLR, or ONRGL are only valid codes for LRs
- Several QSEs did not receive XML messages—most appear to be due to invalid codes or incorrect telemetry

Simulated Load Resource Deployment Test – 8/30 and 8/31

– Results/Lessons Learned

- COPS need to be updated prior to DRUC in order to get a good initial set of Group 1 and 2 Resources
- Telemetry status needs to be updated entering the Adjustment/Operating Period
- Telemetry status needs to be updated after dispatch
- Need to address redispatching that occurs at the top of each hour
- Need to address redispatching that occurs every time a new deployment goes out
- Need to identify key QSE Operations personnel to send test parameters/procedures
- Need to try additional deployment permutations (e.g. individual, system wide, Houston Area IROL)

Simulated Load Resource Deployment Test

– Next Steps

- No testing scheduled during 168 hour test
- Next system wide test will be done 9/20 & 9/21
- May try to do some one on one testing with QSEs after the end of 168 hour test (next Thursday and Friday—9/23 & 9/24)

Nodal Operating Guides

9.4.3 Resource-Specific Responsive Reserve Performance

ERCOT shall develop monthly reports detailing Resource-specific Responsive Reserve (RRS) performance during deployments, including Load Resources, based on criteria described in Protocol Section 8.1.1.4.2.

MIS Reports for RRS Deployments

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Monthly Responsive Reserve Performance Report - Non-CLR Load Resource Performance Data

(Excludes Controllable Load Resources)

<Reporting Month>

<QSE-A Name>

| Resource Name | Deployment Time | Recall Time | Resource Schedule Update Performance | Resource Deployment Performance | Return To Responsibility Performance |
|---------------|-----------------|-------------|--------------------------------------|---------------------------------|--------------------------------------|
| Resource1 | D1 | R1 | PASS | PASS | PASS |
| | D2 | R2 | PASS | PASS | PASS |
| | D3 | R3 | PASS | PASS | PASS |
| | D4 | R4 | FAIL | PASS | PASS |
| Resource2 | D1 | R1 | PASS | PASS | PASS |
| | D2 | R2 | PASS | PASS | PASS |
| | D3 | R3 | PASS | FAIL | PASS |
| | D4 | R4 | PASS | PASS | PASS |

<QSE-B Name>

| Resource Name | Deployment Time | Recall Time | Resource Schedule Update Performance | Resource Deployment Performance | Return To Responsibility Performance |
|---------------|-----------------|-------------|--------------------------------------|---------------------------------|--------------------------------------|
| Resource3 | D1 | R1 | PASS | PASS | PASS |
| | D2 | R2 | PASS | PASS | PASS |
| | D3 | R3 | PASS | PASS | PASS |
| | D4 | R4 | PASS | FAIL | PASS |
| Resource4 | D1 | R1 | PASS | PASS | PASS |
| | D2 | R2 | PASS | PASS | PASS |
| | D3 | R3 | PASS | PASS | PASS |
| | D4 | R4 | PASS | PASS | PASS |

<Report execution datetime stamp>

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Monthly Responsive Reserve Performance Report - QSE Performance Data

<Reporting Month>

<QSE-A Name>

| Deployment Time | Recall Time | Resource Schedule Update Performance | Resource Portfolio Performance |
|-----------------|-------------|--------------------------------------|--------------------------------|
| D1 | R1 | FAIL | PASS |
| D2 | R2 | PASS | PASS |
| D3 | R3 | PASS | PASS |
| D4 | R4 | PASS | PASS |

<QSE-B Name>

| Deployment Time | Recall Time | Resource Schedule Update Performance | Resource Portfolio Performance |
|-----------------|-------------|--------------------------------------|--------------------------------|
| D1 | R1 | FAIL | PASS |
| D2 | R2 | PASS | PASS |
| D3 | R3 | PASS | PASS |
| D4 | R4 | PASS | PASS |

<Report execution datetime stamp>