



# Business Integration Update

Cagle Lowe

Board of Directors Meeting  
June 21, 2011

# Today's Agenda

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- **Project Status Overview**
- **Project Priority List (PLL) Update**
- **Project Portfolio GANT**
- **Summary of Defects**
- **Data Center Update**
- **Appendix**
  - Project Updates

# Project Status Overview

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- **May Release**

- Stabilization and Deferred Defects
- NPRR285-Generation Resource Base Point Deviation Charge Corrections
- NPRR293-Post PTP Obligation Quantities Awarded in DAM
- NPRR303-Post quantities of Point-to-Point (PTP) Options and PTP Options with Refund that were not cleared in the Day-Ahead Market (DAM) and taken to Real-Time for Settlement.
- NPRR307-Change SASM Offer Procedures Modify logic to remove cap after the completion of DAM DSP to allow the resubmission of SASM Offers.
- NPRR329-Security Classification Changes for Extracts/ Reports Change the security classification to public for selected extracts/reports that are currently classified in the Nodal Protocols as secure.

- **June Release**

- Stabilization and Deferred Defects
- NPRR323-Correct DAM Credit Exposure Language and Enable Qualified Expiring CRRS to Offset PTP Bid Exposure
  - PTP portion in the June release, Energy Only Bid in the July release.
- NPRR339-Modifications to Heuristic Rules to Determine LMP at de-energized electrical bus and treatment of CRR Offers at de-energized settlement points.
  - Day Ahead and Real-Time in the June release, CRR portion will be July 20.
- NPRR341-Remove Ancillary Service Offers from SASM that do not meet the lead time.

- **ERCOT Internal Project Update**

- Planning Cyber Security Project #1. Estimated planning cost less than 90K (existing 2011 PPL item).
- Initiated Cyber Security Project #2. Estimated initiation cost less than 5K (existing 2011 PPL item).
- Initiated Cyber Security Project #3. Estimated initiation cost less than 5K (new 2011 PPL item)
- Execution on IT Security Infrastructure Upgrade. Estimated total project cost less than 135K (existing 2011 PPL item).
- No projects above the PPL cutline were moved below the cutline due to the addition of the above projects.

# Project Prioritization List (PPL) <http://www.ercot.com/services/projects/index>

2011 Priority	2011 Rank	Source Doc	Approval Status	Project Number	Project Name	2011 Budget Range	Project Status	Projected Start Date	Projected End Date	Funding Source	Source
1- Critical	0.1		Board Approved		Nodal Stabilization	\$10M-\$12M	Execution	Dec 2010	June 2011	Post Go-Live	Nodal Post Go-Live
1- Critical	0.11	NPRR302	Board Approved	NPRR302	Correct Fuel Type Language for Mitigated Offer Cap	<\$5k	Complete	Jan 2011	Mar 2011	Post Go-Live	Market
1- Critical	0.12		Board Approved		Planning Model	Funded by Stabilization	Complete	2010	Apr 2011	Post Go-Live	Nodal Post Go-Live
1- Critical	1		Board Approved	11000_01 10015_01 10016_01	Data Center Buildout	\$25M-\$30M	Execution	Oct 2009	Feb 2012	PPL	ERCOT
1- Critical	2		Board Approved	99911	Minor Cap - Critical	\$500k-\$1M	Execution	Jan 2011	Dec 2011	PPL	ERCOT
1- Critical	3	NPRR294	Board Approved	11002_01	Texas SET 4.0	\$1M-\$2M	Planning	Feb 2011	2012	PPL	PUCT / Market
1- Critical	3.5	SCR760	Board Approved	SCR760	Recommended Changes Needed for Information Model Mgr and Topology Processor for Planning Models	\$500k-\$1M	Planning	Apr 2011	Apr 2013	Post Go-Live	Market
1- Critical	4		Board Approved	90006_02	Information Lifecycle Mgmt – Mkt Systems, Archive, Reporting	\$1M-\$2M	Planning	Jan 2010	Jan 2012	PPL	ERCOT
1- Critical	5		Board Approved	11003_01	Cyber Security Project #1	\$500k-\$1M	Not Started	TBD	TBD	PPL	ERCOT
1- Critical	6		Board Approved	10052_01	Settlement System Upgrade	\$1M-\$2M	Planning	Mar 2010	2013	PPL	ERCOT
1- Critical	7		Board Approved	11004_01	Cyber Security Project #2	\$250k-\$500k	Initiation	June 2011	Jan 2012	PPL	ERCOT
1- Critical	8		Board Approved	11005_01	IT Security Infrastructure Upgrade	\$100k-\$250k	Planning	May 2011	Aug 2011	PPL	ERCOT
1- Critical	9		Board Approved	11006_01	MarkeTrak Upgrade and Enhancements (PLANNING)	\$100k-\$250k	Not Started	July 2011	2012	PPL	PUCT / Market



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<http://www.ercot.com/services/projects/index>

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1- Critical	9.2	NPRR329	Board Approved	NPRR329	Security Classification Changes for Extracts/Reports	\$5k-\$10k	Complete	Apr 2011	May 2011	Post Go-Live	Market
1- Critical	9.21	SCR764	Board Approved	SCR764	Public Access to Select MIS Dashboards	\$80k-\$125k	Not Started	June 2011	Dec 2011	Post Go-Live	Market
1- Critical	9.22	NPRR350	Board Approved	NPRR350	Change to the Security Classification of the System Ancillary Service Capacity Monitor Dashboard	\$5k-\$10k	Not Started	June 2011	July 2011	Post Go-Live	Market
1- Critical	9.25	SCR765	Pending Board Approval	SCR765	Public Aggregated Wind Dashboard	\$37k-\$45k	Not Started	TBD	TBD	Post Go-Live	Market
1- Critical	9.3	NPRR339	Board Approved	NPRR339	Modifications to Heuristic Rules to Determine LMP at De-energized Electrical Bus and Treatment of CRR Offers at De-energized Settlement Points	<\$100k	Planning	June 2011	Sept 2011	Post Go-Live	J. Robinson
1- Critical	9.41	NPRR285	Board Approved	NPRR285	Generation Resource Base Point Deviation Charge Corrections	\$30k-\$40k	Complete	Apr 2011	May 2011	Post Go-Live	Market
1- Critical	9.42	NPRR282	Board Approved	NPRR282	Dynamic Ramp Rates Use in SCED	\$30k-\$35k	Execution	May 2011	July 2011	Post Go-Live	Market
1- Critical	9.43		Board Approved		Deferred Defects and Workaround Processes	\$2M-\$3M	Execution	Dec 2010	Dec 2011	Post Go-Live	Nodal Post Go-Live
1- Critical	9.45	NPRR322	Pending Board Approval	NPRR322	Real-Time PTP Option Modeling	\$100k-\$105k	Not Started	TBD	TBD	Post Go-Live	Market
2-High	9.5	NPRR307	Board Approved	NPRR307	Change SASM Offer Procedures	\$15k-\$20k	Complete	Apr 2011	May 2011	Post Go-Live	Market
2-High	9.5	NPRR341	Board Approved	NPRR341	Remove Ancillary Service Offers from SASM that do not Meet the Lead Time	\$10k-\$15k	Execution	June 2011	July 2011	Post Go-Live	ERCOT
2-High	10		Board Approved	50088_01	Data Research and Reporting	\$500k-\$1M	Execution	Nov 2006	Sept 2011	PPL	ERCOT
2-High	11		Board Approved	10055_01	Data Agg Performance Improvements	\$250k-\$500k	Planning	Sept 2010	Oct 2011	PPL	ERCOT



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2-High	12		Board Approved	10031_01	Enterprise Records Management Automation (ERMA)	<\$50k	Closing	Jan 2010	Apr 2011	PPL	ERCOT
2-High	12.5		ERCOT Approved	11009_01	Fire Alarm System Upgrade	\$100k-\$250k	Closing	Feb 2011	Apr 2011	PPL	ERCOT
2-High	12.75	NPRR323	Board Approved	NPRR323	Correct DAM Credit Exposure Language and Enable Qualified Expiring CRRs to Offset PTP Bid Exposure	\$375k-\$475k	Execution	Apr 2011	Sept 2011	Post Go-Live	Market
2-High	12.76	NPRR310	Board Approved	NPRR310	Expand Output Schedule Acceptable Range to Include HSL and LSL	\$10k-\$15k	Not Started	June 2011	Aug 2011	Post Go-Live	Market
2-High	12.77	SCR762	Pending Board Approval	SCR762	Enable a Single Step Cancel/Resubmit of Trades	\$25k-\$30k	Not Started	July 2011	Aug 2011	Post Go-Live	Market
2-High	12.78	SCR761	Pending Board Approval	SCR761	Provide Price Republication Notifications via API and Provide Price Corrections via XML	\$50k-\$63k	Not Started	Apr 2011	Dec 2011	Post Go-Live	Market
2-High	12.79	SCR763	Pending Board Approval	SCR763	Modify COP Validation Rule for RRS	\$10k-\$15k	Not Started	July 2011	Aug 2011	Post Go-Live	Market
2-High	12.8	NPRR320	Board Approved	NPRR320	Minimum PTP Option Bid and Settlement	\$95k-\$110k	Not Started	June 2011	Sept 2011	Post Go-Live	Market
2-High	12.9	NPRR326	Pending Board Approval	NPRR326	Adjust the Calculation of the Real-Time Settlement Point Price for a Resource Node	\$15k-\$20k	Not Started	TBD	TBD	Post Go-Live	ERCOT
2-High	13	NPRR290	Board Approved	NPRR290	ERCOT Publication of DAM PSS/E Files	\$20k-\$25k	Not Started	July 2011	Aug 2011	Post Go-Live	Market
2-High	13.1	NPRR343	Board Approved	NPRR343	CRR Bid and PTP Obligation Bid Criteria Change	\$400k-\$450k	Not Started	June 2011	Dec 2011	Post Go-Live	ERCOT
2-High	14	NPRR293	Board Approved	NPRR293	Requirement to Post PTP Obligation Quantities Awarded in DAM	\$12k-\$15k	Complete	Apr 2011	May 2011	Post Go-Live	Market
2-High	14	NPRR303	Board Approved	NPRR303	Requirement to Post PTP Options Cleared in the DAM or Taken to Real Time	<\$5k	Complete	Apr 2011	May 2011	Post Go-Live	Market



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2-High	15		Board Approved		Parking Deck Initiatives	\$3.0M-\$3.5M	Execution	Feb 2011	Mar 2012	Post Go-Live	Nodal Post Go-Live
2-High	15.1	NPRR208	Board Approved	NPRR208	Registration & Settlement of Distributed Generation (DG) <1 MW	\$5k-\$10k	Execution	Apr 2011	Aug 2011	Post Go-Live	Market
2-High	15.2	NPRR251	Board Approved	NPRR251	Sync PRR845, Definition for IDR Meters and Optional Removal of IDR Meters at a Premise Where an Advanced Meter Can be Provisioned	\$30k-\$50k	Not Started	June 2011	Aug 2011	Post Go-Live	Market
2-High	15.3	NPRR316	Board Approved	NPRR316	Negative Self-Arranged Ancillary Services Quantity	\$15k-\$20k	Not Started	June 2011	Sept 2011	Post Go-Live	Market
2-High	15.4	NPRR314	Pending Board Approval	NPRR314	Requirement to Post Generation Resources Temporal Constraints	\$32k-\$39k	Not Started	TBD	TBD	Post Go-Live	Market
2-High	16		Board Approved		Decommissioning Efforts	\$275k-\$325k	Execution	Jan 2011	July 2011	Post Go-Live	Nodal Post Go-Live
2-High	17		Board Approved		Program Risk Items	\$1.0M-\$1.5M	Execution	Mar 2011	Dec 2011	Post Go-Live	Nodal Post Go-Live
2-High	18		Board Approved	10018_01	Annual Storage Growth	<\$50k	Execution	Jan 2011	Apr 2011	PPL	ERCOT
2-High	19		Board Approved		Hardware and Software Systems License & Maintenance	\$7M-\$8M	Execution	Jan 2011	June 2011	Post Go-Live	Nodal Post Go-Live
2-High	20	NPRR221	ERCOT Approved	NPRR221	Automate Default Invoice	\$50k-\$75k	Execution	Apr 2011	Aug 2011	Post Go-Live	ERCOT
2-High	21	NPRR338	Pending Board Approval	NPRR338	Modifications to Support Revenue Neutrality	\$4k-\$5k	Not Started	July 2011	Aug 2011	Post Go-Live	ERCOT
2-High	22	NPRR346	Pending Board Approval	NPRR346	Removal of Redundant Posting Requirement Related to Electrical Bus Changes	<\$2.5k	Not Started	TBD	TBD	Post Go-Live	ERCOT
2-High	23		ERCOT Approved		Impact Assessment Labor Funds	\$100k	Execution	Apr 2011	Dec 2011	PPL	ERCOT
2-High	24	NPRR312	Pending Board Approval	NPRR312	Clarification of QSE Requirements for Split Generation Resources	\$70k-\$75k	Not Started	TBD	TBD	Post Go-Live	ERCOT

## PPL Outline and Summary

2011 Project Budget = \$36,364,000

\$31,974,509

Variance = \$4,389,491

## Nodal Post Go-Live Summary

2011 Post Go-Live Budget = \$25,191,000

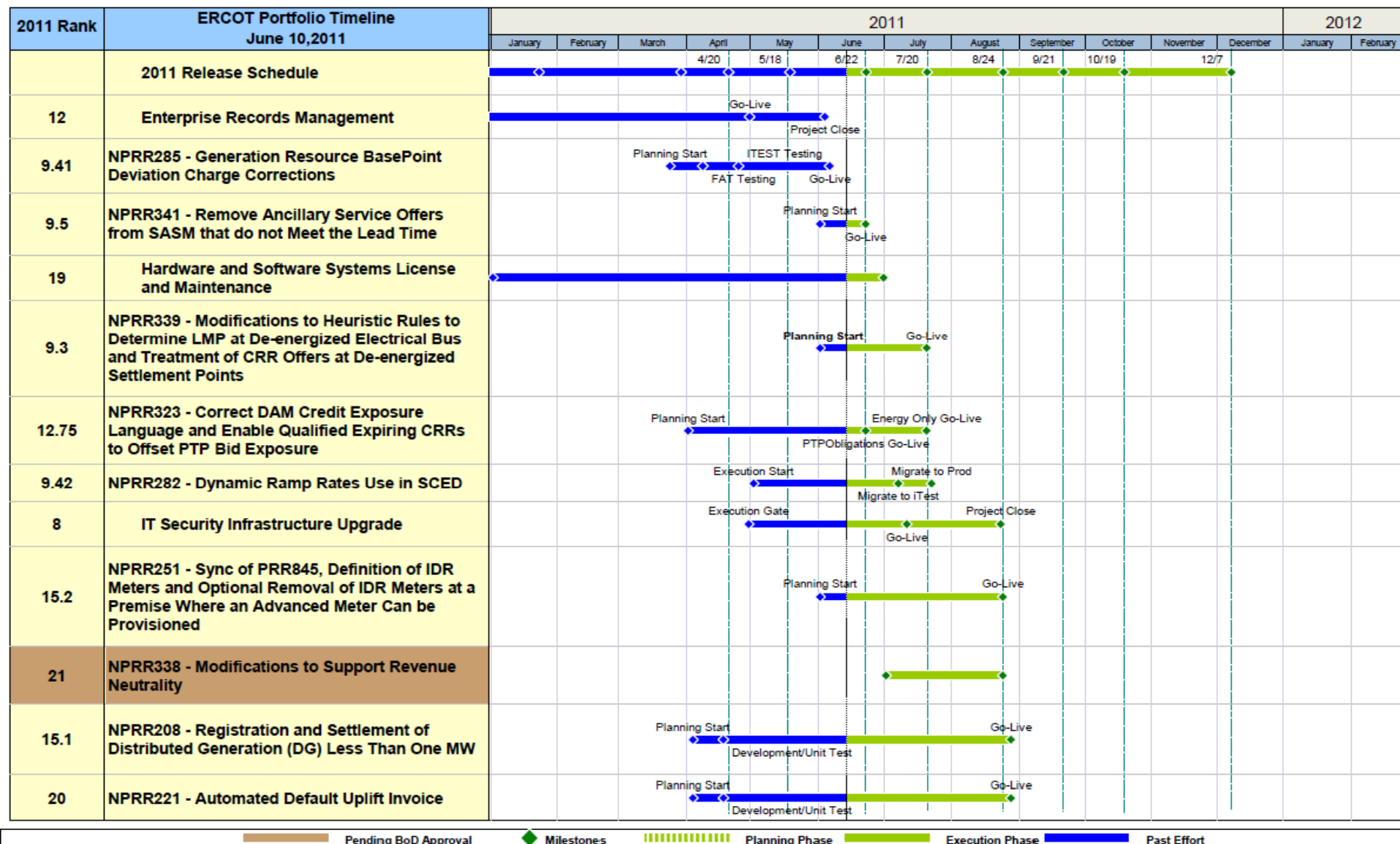
\$23,660,374

Variance = \$1,530,626



June 21, 2011

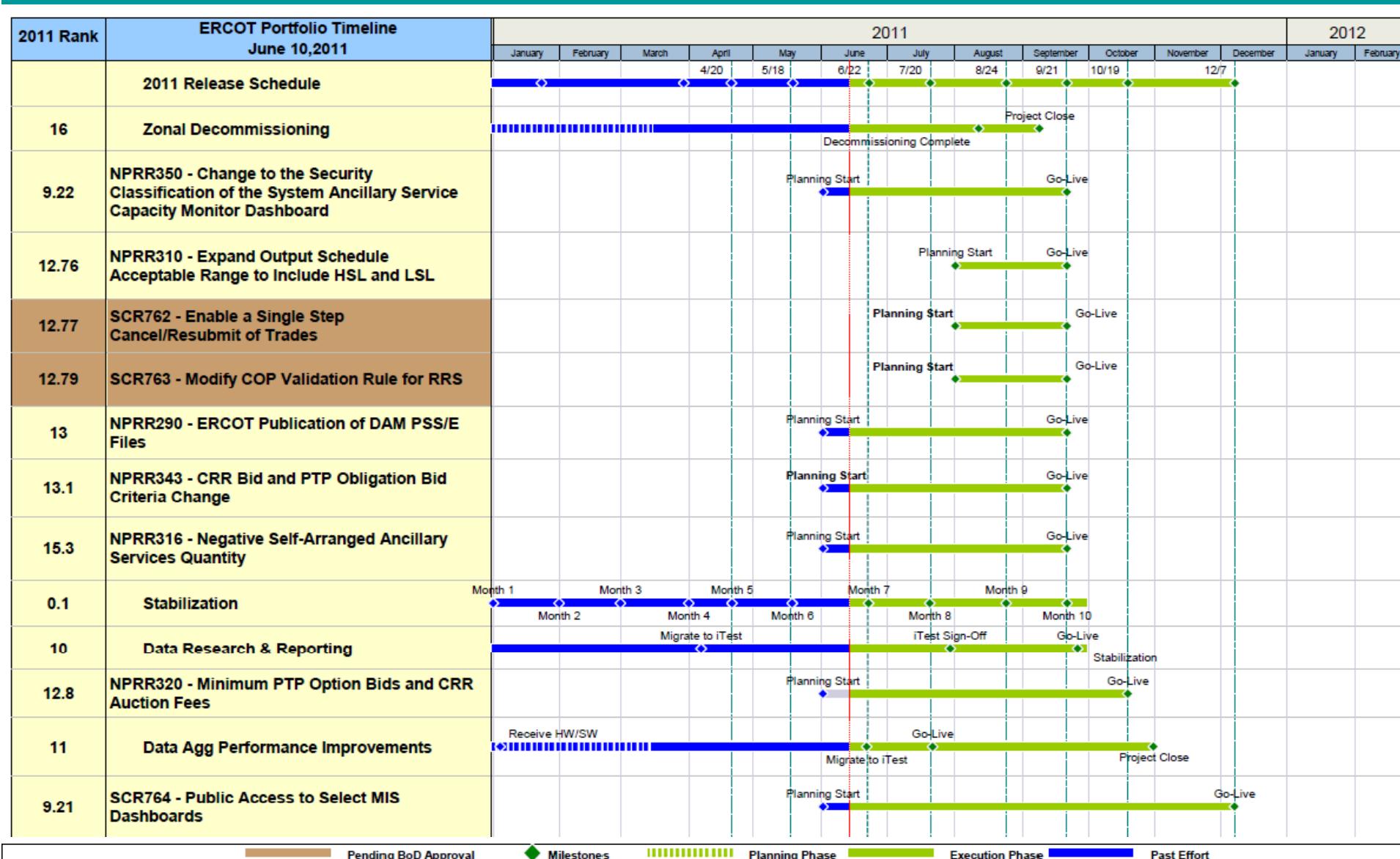
# ERCOT Portfolio Status Report (as of 6/13/2011)



June 21, 2011

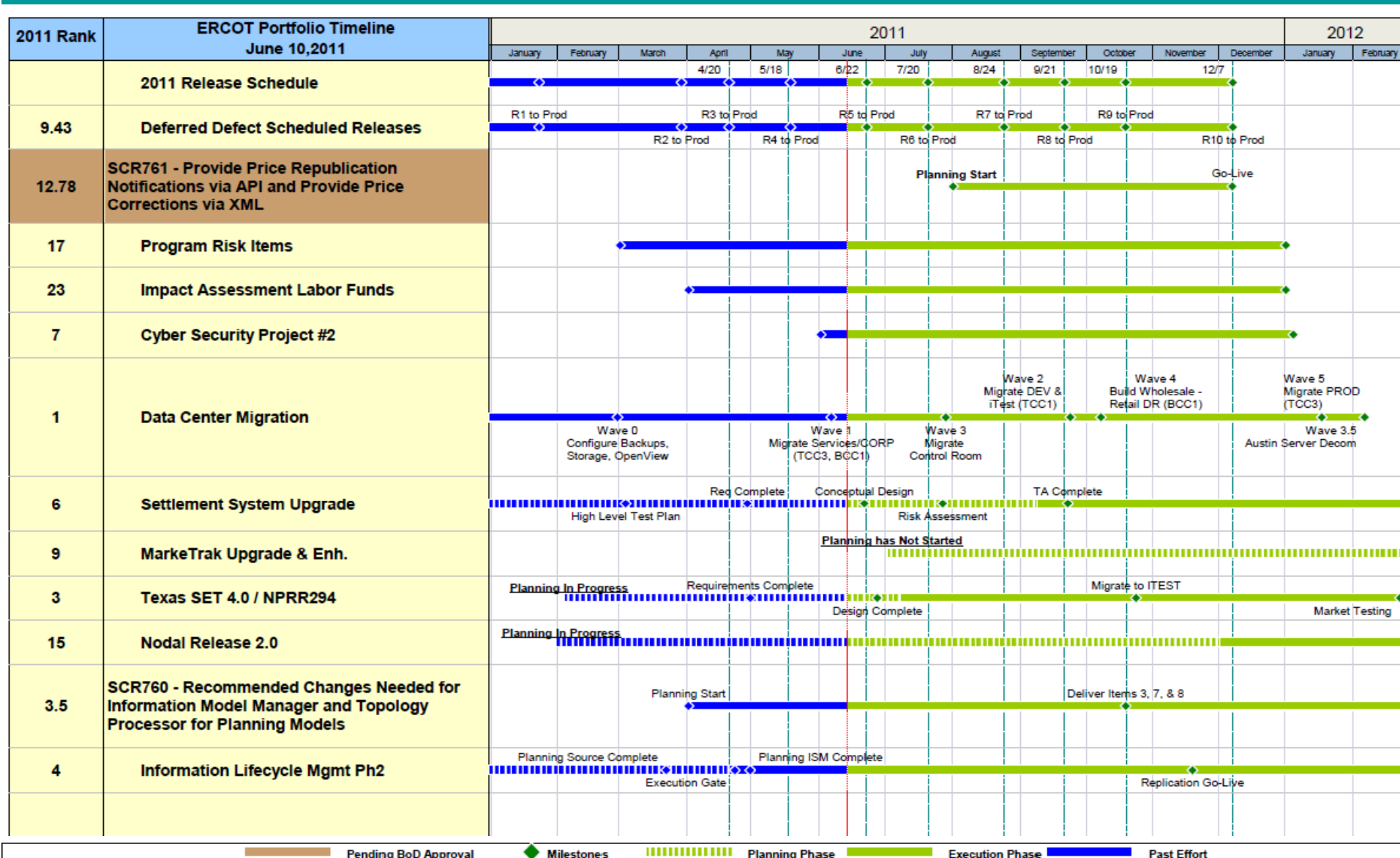


# ERCOT Portfolio Status Report (as of 6/13/2011)



June 21, 2011

# ERCOT Portfolio Status Report (as of 6/13/2011)



# ERCOT Portfolio Status Report (as of 6/13/2011)

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# Summary of Defects by Target Delivery (Stabilization & Deferred) (as of 6/8/2011)

Summary of Defects by Target Delivery												
System	Open Stabilization Priority 2 Target June 2011	Deferred Defects Priority 3								Priority 4 & 5 Defects (Potential Future Work)		Total Defects
		Group 4 6/2011	Group 5 7/2011	Group 6 8/2011	Group 7 9/2011	Group 8 10/2011	Group 9 12/2011	Unassigned	Total	Deferred Defects	Stabilization	
<i>MMS</i>	29	3	14		5				22	16	47	114
<i>EMS</i>	27	3	27	19	7	3	5	86	150	169	64	410
<i>COMS</i>	4	7	6	6		4			23	19	22	68
<i>CMM</i>	4	12							12	2	4	22
<i>NMMS</i>		6	5	9	10	5			35	7	10	52
<i>OS</i>		5	7		2	1		2	17	33	5	55
<i>CRR</i>									0	3	18	21
<i>MIS</i>									0	5	14	19
<i>CDR</i>			1						1		7	8
<i>EIS(EDW)</i>									0	2		2
<i>EIP</i>	5	1	6					7	14	5	14	38
<i>MPIM</i>									0			0
<i>Planning Model</i>				2					2	3	2	7
<b>Total</b>	<b>69</b>	<b>37</b>	<b>66</b>	<b>36</b>	<b>24</b>	<b>13</b>	<b>5</b>	<b>95</b>	<b>276</b>	<b>264</b>	<b>207</b>	<b>816</b>

## Summary Stabilization & Deferred Defect Changes (as of 6/8/2011)

	<b>Dec 03 to Jan 07</b>	<b>Jan 08 to Feb 03</b>	<b>Feb 04 to Feb 28</b>	<b>Mar 01 to Mar 31</b>	<b>Apr 01 to May 06</b>	<b>May 06 to Jun 08</b>	<b>Jun to Jul</b>
<b>Stabilization defects (changes since last report)</b>							
<b>New Priority 1, 2 Defects</b>	<b>111</b>	<b>56</b>	<b>86</b>	<b>26</b>	<b>46</b>	<b>40</b>	
<b>New Deferred Defects</b>	<b>92</b>	<b>95</b>	<b>38</b>	<b>105</b>	<b>97</b>	<b>84</b>	
<b>Defects Resolved</b>	<b>90</b>	<b>51</b>	<b>60</b>	<b>133</b>	<b>82</b>	<b>109</b>	
<b>Deferred defects (changes since last report)</b>							
<b>Defects Resolved</b>	<b>83</b>	<b>41</b>	<b>9</b>	<b>45</b>	<b>47</b>	<b>31</b>	

## Forecast for June Release (as of 6/8/2011)

Remaining for June Release			
Project	Internal	Market Facing	Total
Stabilization defects	64	5	69
Deferred defects	33	4	37
Total	97	9	106

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# Questions?



# Data Center Project Migration Update

Board of Directors Meeting  
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# Monthly Highlights

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- **Wave 1 – Corporate and Support Systems – remains in progress**
  - System monitoring , IT automation and corporate email remain to complete.
- **Wave 1.5 – Virtual Development Systems**
  - All systems will complete in June
- **Wave 2 – Development & Integrated Test systems**
  - Grid and Markets development systems successfully migrated.
- **Wave 3 – Bastrop Control and Data Center Commissioning**
  - Detailed migration plan for July network migration complete, mitigates known risks.
- **Wave 4 – Bastrop Disaster Recovery Environment**
  - Systems builds began 4 weeks early
  - Disaster recovery testing processes under development
- **Wave 5 – Taylor Production Migration**
  - Current plan being reviewed to determine if there are opportunities to accelerate specific applications.

# Critical Path & Percent Complete

Critical Path Milestone	Planned Start	Actual Start	Planned Finish	Actual Finish	Status
Wave 0 - Wave 1 Equipment Installed	1/1/11	1/1/11	2/28/11	3/25/11	✓ Complete
Wave 1 - Supporting Systems Installed	3/1/11	3/25/11	5/16/11	4/22/11	✓ Complete
Wave 2 - Test Environments Moved	5/16/11	4/22/11	9/23/11		In progress
Wave 3 – Bastrop Control Center	7/4/11		10/5/11		Not Started
Wave 4 – Successful Commercial Disaster Recovery Test	7/1/11	6/6/11	10/7/11		In progress
Wave 5 – Taylor Production Migration	9/12/11		1/17/12		Not Started

WAVES	Start	Finish	Percentage of Total Moves	Percent in Progress	Percent Complete	Percent Time Elapsed
WAVE 1 - Corporate and Supporting Infrastructure	3/1/2011	6/6/2011	19.0%	38.2%	61.8%	100%
WAVE 1.5 - Virtual Host Migration	3/21/2011 3/21/2011	4/27/2011 6/21/2011	1.7% 13.7%	100.0%	100.0% 56.3%	100.0% 90.0%
WAVE 2 Development and Testing	4/22/11 <del>5/16/2011</del>	9/23/2011	35.5%	5.4%	16.5%	19.7%
WAVE 3 EMMS and Austin Control Room	7/5/2011	10/5/2011	3.1%		0.0%	
WAVE 4 Bastrop Disaster Recovery Environment	6/6/2011 <del>7/1/2011</del>	10/7/2011	4.1%	9.2%	0.0%	
WAVE 5 Production moved to TCC3	9/12/2011	1/17/2012	22.9%		0.0%	
Overall	3/1/2011	1/17/2012	100.0%	15.5%	26.9%	32.0%

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# Appendix

# Projects Update

Project Name	Scope	Objectives	Current Status	Issue	Potential Risks	Risk Probability
<b>Stabilization</b>	Evaluate and remediate ERCOT Nodal Operational Issues including higher than normal: production outages, issue analysis, software defect remediation, stakeholder support, and request for information volumes	Maintain Nodal Operational Stability during the first months of System Operations	Defects Resolved June (10) 0 Market Facing Defects 10 Internal Defects  Remaining in June (69) 5 Market Facing Defects 64 Internal Defects	None	Issue volumes are higher than expected Complexity of issues is greater than expected System design changes are implemented before systems are fully stabilized	Medium
<b>Deferred Defects</b>	Evaluate and remediate the defects that were deferred from the Nodal Project	Continue to improve the operational efficiency of the Nodal Applications and reduce the impact of workarounds for both ERCOT and Market Participants	Defects Resolved June (23) 5 Market Facing Defects 18 Internal Defects  Remaining in June (37) 4 Market Facing Defects 33 Internal Defects	None	Resource availability and delivery timelines may be impacted by Stabilization efforts	Medium
<b>Data Center Migration</b>	Replace data center hardware that is approaching end of life and migrate hardware to new Taylor and Bastrop data centers	Reduce level of risk of hardware failure and resulting impact on critical business functions	Wave 1: all required systems for other waves in place. Wave 2: migrations in progress. Wave 3: planning in progress Wave 4: system builds started Wave 5: evaluating opportunities to start early.	None	Project resource Issues may impact budget and schedule. System capacity requirements may exceed planning estimates.	Medium
<b>SCR760 Changes Needed for Information Model Manager and Topology Processor for Planning Models</b>	Implement and support nine (9) system changes that update the NMMS Database and/or the tools used to create the Annual Planning Model.	Support additional features required by the Transmission Service Provider Planning teams in an effort to more efficiently and accurately build the Annual Planning Models.	SOW for SCR760-3, SCR760-7 and SCR760-8 complete. Planned for Production with October on cycle release (10/19 - 10/23).  Requirements for SCR760-2, SCR760-4, SCR760-5 and SCR760-9 in progress.	None	Inability of vendor to deliver quality software in a timely manner as scheduled.	High
<b>Texas SET 4.0-Acquisition and Transfer of Customers From One REP to Another; Meter Tampering Transactional Solution</b>	TX SET Version 4.0 is the next iteration of retail market transaction enhancements and modifications to enable more efficient transaction processing and business process solidification to be supported by the Texas Electric Retail Market. The TX SET Working Group has identified a number of Change Controls that are being assembled into a project for market-wide implementation.	Implement a solution as outlined in NPRR294 to facilitate the large transition of ESI IDs as a result of an acquisition pursuant to SUBST. R 25.493, Acquisition and Transfer of Customers from one Retail Electric Provider to Another.	Internal TX SET 4.0 Business Requirements - Complete. Detail Design Documentation – In Progress. Implementation Guides (DRAFT) - Complete. Test Cases Development – In Progress.	None	Resource availability and delivery timelines may be impacted by stabilization.	Low
<b>Zonal Decommission</b>	The complete decommission (hardware, software, network, data, instances) of all systems that will no longer be used after Nodal Go-Live.	Track and coordinate ERCOT assets (hardware, software) as they are being decommissioned or repurposed back into the ERCOT Asset pool.	Execution has started with a targeted completion date of August 2011.	None	Zonal data retrieval may be requested to be retained beyond the decommissioning project end date.	Medium
<b>Information Lifecycle Mgmt Phase 2</b>	Define and implement ERCOT's Information Lifecycle Management (ILM) to a defined group of Commercial System databases.	Free up usable storage quickly and control future growth rates by applying ERCOT ILM standards and policies.	For Execution 1: Testing of Group 0 deliverables. Developing Group 1 deliverables.	None.	Delivery timelines may be impacted by resource availability. Risk probability reduced as a result of restructured execution phase.	Medium



# Projects Update

<b>Settlement System Upgrade</b>	Create a custom settlement solution that can be maintained by ERCOT staff. It will include the removal of the Oracle Lodestar Billing Expert application.	Replace all Lodestar proprietary code, data structures and tools with an ERCOT supported solution that does not require a maintenance agreement with an outside vendor.	Currently working on the Conceptual Design document and working with IT for the layout of the architecture.	None	Resource availability and delivery timelines may be impacted by stabilization, impact analysis' and other higher priority projects.	Medium
<b>Data Research &amp; Reporting</b>	Deliver a Electric Service Identifier (ESI ID) data research and reporting tool for ERCOT Commercial Operations to provide accurate, complete and efficient reporting and research capabilities using retail transaction data.	The delivery of timely, accurate and supportable reports, creation of a framework to build additional data marts, and the assurance that the transitioned ETS data is designed to be highly reliable and recoverable, with automated auditing and notification.	User Acceptance Testing underway. Development and Support teams supporting testing activities	None	Software defects discovered during testing may impact project timelines.	Low
<b>Data Agg Performance Improvements</b>	ERCOT has the capability to load and process Advance Metering Systems (AMS) settlement meter data in support of market forecasts for deployment.	To stress test data agg code in an environment with similar resources as production and make any necessary improvements to data agg code to ensure data agg's ability to support the volume of AMS ESIIDS that will come over the next 10 years (Forecasted by ERCOT to be 7.4 million AMS ESIIDS).	Performance enhancements code is in Production. Continue testing additional data loads simulating 5 and 6 million AMS ESIIDS.	None	Unable to resolve performance issues to meet expected volumes may impact delivery schedule.	Medium
<b>NPRR 208 Registration and Settlement of Distributed Generation (DG) Less Than One MW</b>	NPRR208 - Provides market clarity on registration requirements for Distributed Generation for the Nodal market. Established a DG registration threshold (currently at 1MW)	Eliminated Resource registration requirement for DG below the DG registration threshold Allowed all DG below the DG registration threshold to be settled as negative load	Business Requirements - Complete. Detail Design - Complete Code - In Progress	None	Resource availability and delivery timelines may be impacted by Stabilization efforts	Low
<b>NPRR 221 Day-Ahead Market and Retail-Time Market Default Allocation Changes</b>	NPRR221 changed the way default amounts in the Day-Ahead Market and Real-Time Market are allocated. A Default Uplift Invoice and Settlements Calculation were defined to support this change. For Nodal Go-Live this change remained a manual Business Process.	<ul style="list-style-type: none"> <li>Build Settlement tools to support the calculation of default uplift invoice input data</li> <li>Define new business processes to minimize impacts when a default occurs.</li> <li>Lodestar changes to support the creation of Default Uplift Invoices</li> <li>Lodestar changes for Billing &amp; Payment of short-pay amounts</li> </ul>	Business Requirements - Complete. Detail Design - Complete.	None	Resource availability and delivery timelines may be impacted by Stabilization efforts	Low
<b>NPRR 282 Dynamic Ramp Rate Use in SCED</b>	Enhance ERCOT's EMS system to use the telemetered ramp rates instead of computed ramp rates from MMS	Enhance ERCOT's EMS system to use the telemetered ramp rates instead of computed ramp rates from MMS	Currently in development. On track for migration to iTest platform for testing on June 30 followed by migration to production on July 22. Market notice to provide live ICCP data by July 1 sent to QSEs.	None	Response to create ICCP points by Market Participants.	Low

# Projects Update

<b>NPRR323 Correct DAM Credit Exposure Language and Enable Qualified Expiring CRRs to Offset PTP Bid Exposure</b>	Enhance the MMS system to: 1. Support new credit validation rules 2. Reduce credit exposure for qualified PTP Obligation Bids 3. Allow ERCOT to make a QSE ineligible to receive CRR credit exposure offsetting	The change will potentially reduce the collateral burden for Qualified Scheduling Entities' (QSEs') bids while sufficiently collateralizing ERCOT.	PTP portion in the June release, Energy Only Bid in the July release.	None	Testing may discover defects that require a new development release which would affect the production timeline.	Low
<b>NPRR 339 Modifications to Heuristic Rules</b>	Modifications to heuristic rules to determine LMP at de-energized Electrical Bus and treatment of CRR Offers at de-energized Settlement Points	<ul style="list-style-type: none"> <li>Extend the heuristic rules to determine LMP at de-energized Electrical Busses</li> <li>Change the treatment of CRR Offers when either the source or sink Settlement Point is de-energized in DAM</li> </ul>	Day Ahead and Real-Time in the June release, CRR portion will be July 20	None	Testing may discover defects that require a new development release which would affect the production timeline.	Low
<b>NPRR 341 Remove Ancillary Service Offers</b>	Modify input data processing of Supplemental Ancillary Services Markets (SASMs) to remove offers that do not meet the lead time for each hour in the SASM study period.	To introduce systematic changes/logic to remove offers that do not meet the lead time for each hour in the SASM study period.	Planning starting in May, with targeted July implementation date during MMS's on-cycle release.	None	Testing may discover defects that require a new development release which would affect the production timeline.	Low
<b>NPRR 350 Change to the Security Classification of the System Ancillary Service Capacity Monitor Dashboard</b>	Change the posting category of items that make up the System Ancillary Service Capacity Monitor Dashboard from MIS Secure Area to MIS Public Area in order to allow this information to be posted to ERCOT.com.	<ul style="list-style-type: none"> <li>Better understanding of market to optimize position in market. Understand interactions of different aspects of market.</li> <li>Restoring transparency from zonal to Nodal for market data. This does not apply to the LMP Contour Map or SCED Up/Down dashboards.</li> <li>Public visibility into the ERCOT System conditions.</li> <li>Mobile availability.</li> </ul>	Planning started in June, with implementation date to be confirmed during Planning phase.	None	Development life cycle may take longer than planned. Software defects discovered during testing may delay releases and affect the project timelines.	Low
<b>SCR 764 Public Access to Select MIS Dashboards</b>	Implement system changes to allow public access to a graphical view of non-confidential system conditions and pricing information for the following MIS Dashboards: <ul style="list-style-type: none"> <li>Load Forecast vs. Actual</li> <li>LMP Contour Map</li> <li>SCED Up/Down</li> </ul>	<ul style="list-style-type: none"> <li>Better understanding of market to optimize position in market. Understand interactions of different aspects of market.</li> <li>Restoring transparency from zonal to Nodal for market data. This does not apply to the LMP Contour Map or SCED Up/Down dashboards.</li> <li>Public visibility into the ERCOT System conditions.</li> <li>Mobile availability.</li> </ul>	Planning started in June, with implementation date to be confirmed during Planning phase.	None	Development life cycle may take longer than planned. Software defects discovered during testing may delay releases and affect the project timelines.	Low