



Business Integration Update

Cagle Lowe

Board of Directors Meeting
May 17, 2011

Today's Agenda

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

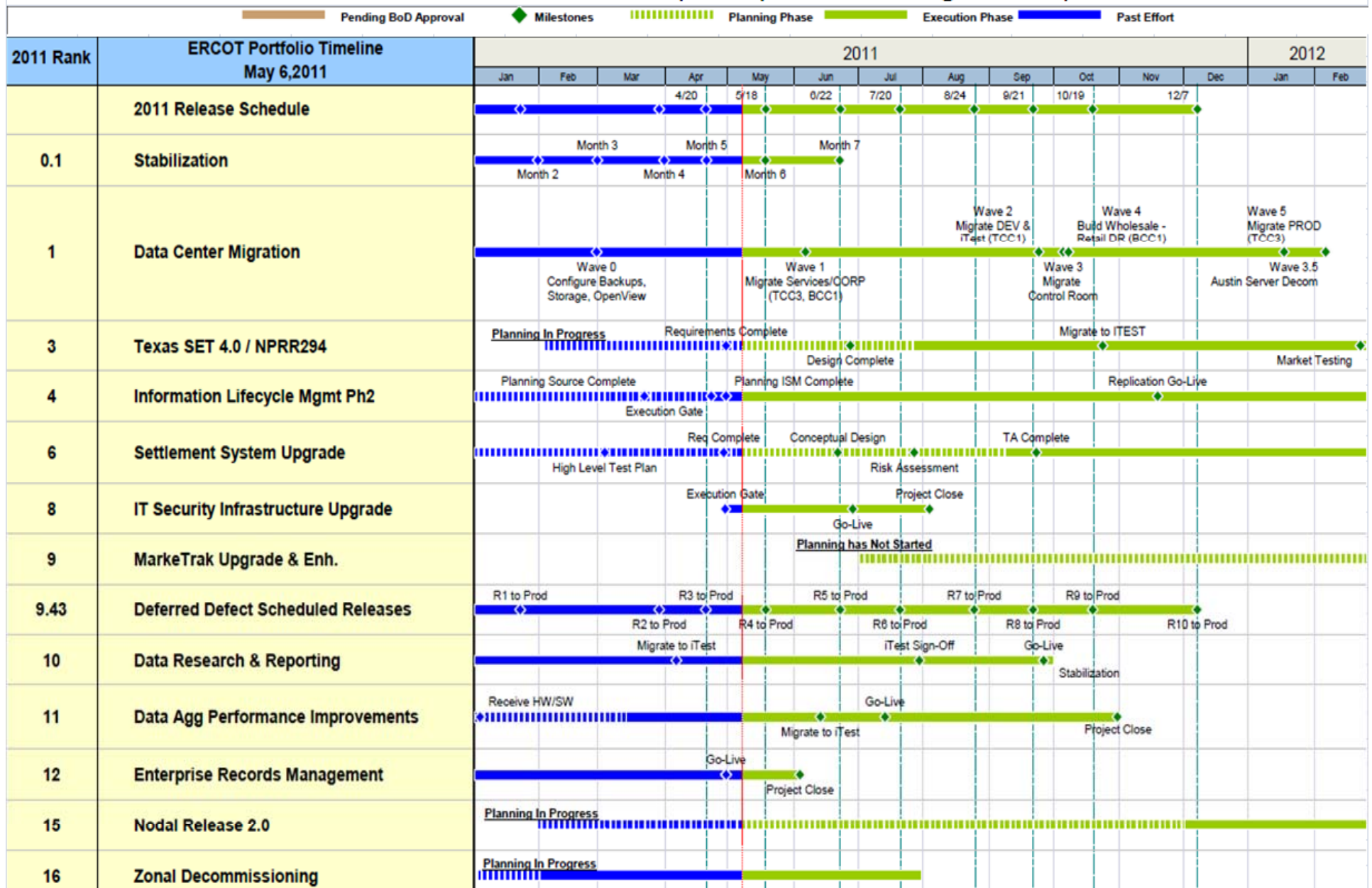
Project Status Overview May/June

- **Scheduled Release-5/18-5/24**
 - **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.**

- **Project Go-Live**
 - **Enterprise Records Management-Define and implement ERCOT strategy for managing email, documents and legal records.**
 - **Fire Alarm Upgrade**

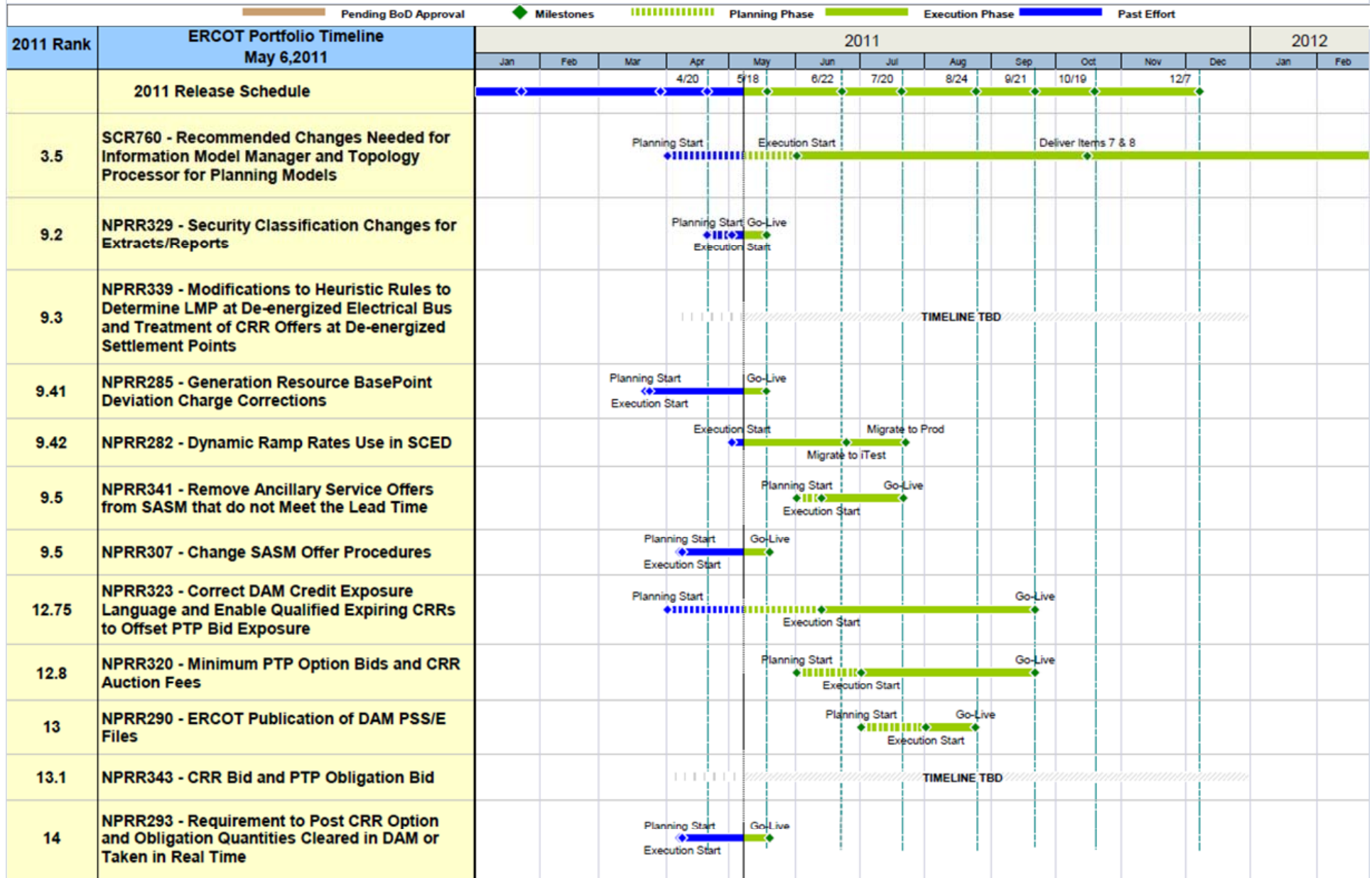
- **April Issue Update**
 - **Information Lifecycle Management**
 - **Resource availability constraint has been reduced as a result of restructured execution phase.**
 - **Restructured execution phase to work around system constraints.**
 - **Settlement System Upgrade**
 - **Risk of resources being pulled from project to work other priorities remains but not currently impacting the project.**
 - **Prioritizing new work against project current tasks and timelines will be reviewed if demand increases again.**
 - **Data Center Migration-Please view slide 14 in this deck.**

ERCOT Portfolio Status Report (Week Ending 5/6/11)



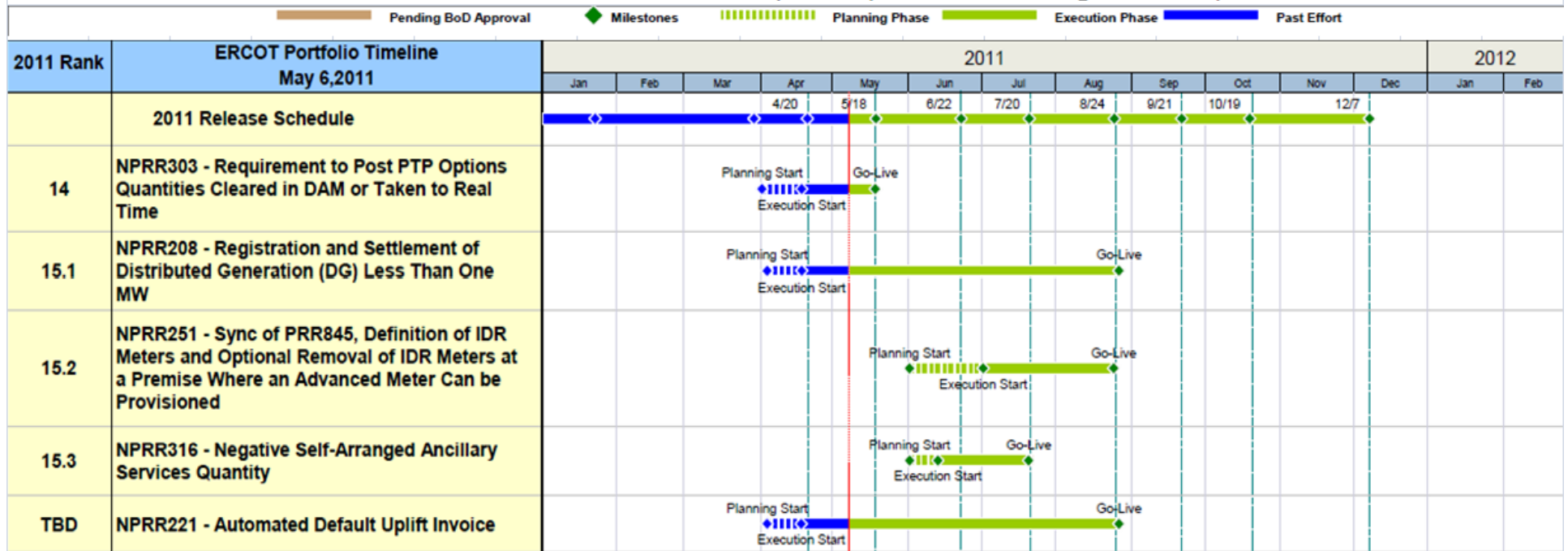
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ERCOT Portfolio Status Report (Week Ending 5/6/11)



May 17, 2011

ERCOT Portfolio Status Report (Week Ending 5/6/11)



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	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	Not Started	TBD	TBD	PPL	ERCOT
1- Critical	8		Board Approved	11005_01	IT Security Infrastructure Upgrade	\$100k-\$250k	Not Started	TBD	TBD	PPL	ERCOT
1- Critical	9		Board Approved	11006_01	MarkeTrak Upgrade and Enhancements (PLANNING)	\$100k-\$250k	Not Started	July 2011	2012	PPL	PUCT / Market
1- Critical	9.2	NPRR329	Board Approved	NPRR329	Security Classification Changes for Extracts/Reports	\$5k-\$10k	Not Started	Apr 2011	May 2011	Post Go-Live	Market
1- Critical	9.21	SCR764	Pending Board Approval	SCR764	Public Access to Select MIS Dashboards	<\$125k	Not Started	TBD	TBD	Post Go-Live	Market
1- Critical	9.22	NPRR350	Pending Board Approval	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



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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	Not Started	TBD	TBD	Post Go-Live	ERCOT
1- Critical	9.41	NPRR285	Board Approved	NPRR285	Generation Resource Base Point Deviation Charge Corrections	\$30k-\$40k	Execution	Apr 2011	May 2011	Post Go-Live	Market
1- Critical	9.42	NPRR282	Board Approved	NPRR282	Dynamic Ramp Rates Use in SCED	\$30k-\$35k	Not Started	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	9.44		Board Approved		Planning Model	Funded by Stabilization	Complete	2010	Apr 2011	Post Go-Live	Nodal Post Go-Live
2-High	9.5	NPRR307	Board Approved	NPRR307	Change SASM Offer Procedures	\$15k-\$20k	Execution	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	Not Started	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
2-High	12		Board Approved	10031_01	Enterprise Records Management Automation (ERMA)	<\$50k	Execution	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	Planning	Apr 2011	Sept 2011	Post Go-Live	Market
2-High	12.76	NPRR310	Pending Board Approval	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	12.8	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



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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	TBD	TBD	Post Go-Live	ERCOT
2-High	14	NPRR293	Board Approved	NPRR293	Requirement to Post PTP Obligation Quantities Awarded in DAM	\$12k-\$15k	Execution	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	Execution	Apr 2011	May 2011	Post Go-Live	Market
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	Planning	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	\$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	July 2011	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	Planning	Apr 2011	Aug 2011	Post Go-Live	ERCOT
PPL Cutline and Summary					2011 Project Budget = \$36,364,000	Forecast = \$32,864,161	Variance = \$3,499,839				
Nodal Post Go-Live Summary					2011 Post Go-Live Budget = \$25,191,000	Forecast = \$25,548,300	Variance = (\$357,300)				



May 17, 2011

Summary of Defects by Target Delivery (Stabilization & Deferred) (as of 5/6/2011)

Summary of Defects by Target Delivery

System	Open Stabilization Priority 2 Target Apr/May 2011	Deferred Defects Priority 3									Priority 4 & 5 Defects (Potential Future Work)		Total Defects
		Group 3 5/2011	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	
MMS	29	1	21	1		2			1	26	19	47	121
EMS	24	6	18	38	13	14	20	20	87	216	115	53	408
COMS	10	4	11	9	5					29	21	25	85
CMM	9	4	12							16	2	9	36
NMMS		1	6	5	9	10	5			36	7	2	45
OS		2	10	8	2	2	1			25	33	13	71
CRR										0	4	6	10
MIS		1								1	5	11	17
CDR				1						1		3	4
EIS(EDW)										0	2		2
EIP	7	5	4	5					5	19	5	26	57
MPIM	3	1								1			4
Planning Model					2					2	3	2	7
Total	82	25	82	67	31	28	26	20	93	372	216	197	867

Summary Stabilization & Deferred Defect Changes (as of 5/6/2011)

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

Questions?



Data Center Migration Project Update

Cagle Lowe

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Monthly Highlights

- **Wave 1 – Corporate and Support Systems - in progress and remains two weeks behind schedule for overall completion.**
 - Schedule risk mitigated by reprioritizing all tasks necessary to start Wave 2 early. No downstream impacts of the delay.
 - Corporate virtual servers moved on schedule with remainder moving into Wave 2
- **Wave 2 – Development & Integrated Test systems started four weeks early.**
 - Daily coordination meeting held to handle “flight control” with other projects and priority defects.
- **Wave 4 – Bastrop Disaster Recovery Environment – planning in progress to start early.**

Migration Program Phases

Program Phase	Key Activities	Risk	Complexity	Key Dependencies	Key Milestones
Wave 0	Equipment installation	Low	Low	✓ Equipment delivery	✓ All Wave 1 Equipment Installed
Wave 1	Deploy Support Services Migrate Corporate Support System	Low	Medium	✓ Equipment Installation	✓ Support Systems Deployed ○ All Systems Migrated
Wave 2	Migrate Development Systems Migrate Integrated Test (iTest) Systems	Low	Medium	✓ Wave 1 Support systems deployed ○ Successful DR Test in Bastrop	○ Development installed ○ Test Migrated to Taylor
Wave 3	Move Austin Control Room Migrate Austin EMMS systems	High	High	○ EMMS Test migration complete	○ Network Transition to Bastrop ○ Control Room Migrated to Bastrop ○ EMMS Systems Migrated to Austin
Wave 4	Install new disaster recovery environments in Bastrop	Low	Medium	✓ Equipment Delivery ○ Network Transition to Bastrop	○ Successful Disaster Recovery Test
Wave 5	Migrate Taylor Production Systems	Medium	High	○ Test migrations complete	○ Production Migrations Complete

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		10/7/11		Planning to start early
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%	42.8%	32.3%	73.7%
WAVE 1.5 - Virtual Host Migration	3/21/2011	4/27/2011	1.7%		67.0%	100.0%
	3/21/2011	6/21/2011	13.7%	100.0%	0.0%	54.4%
WAVE 2 Development and Testing	4/22/11 5/16/2011	9/23/2011	35.5%	5.9%	1.0%	0%
WAVE 3 EMMS and Austin Control Room	7/4/2011	10/5/2011	3.1%		0.0%	
WAVE 4 Bastrop Disaster Recovery Environment	7/1/2011	10/7/2011	4.1%		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%	24.4%	7.55%	24.8%

Program Financial Summary – as of April 30, 2011

Cost Categories	LTD Actuals Thru 4.30.2011	Total Forecast	Project Budget
Internal Labor	1,656,493	4,742,111	
External Services	1,889,122	3,384,607	
Hardware & Hardware Licenses	22,793,945	26,277,048	
Software & Software Licenses	3,819,287	4,569,288	
Hardware & Software Maintenance	770,942	1,730,876	
Other	324,116	611,343	
Financing	56,546	310,689	
Subtotal	31,310,450	41,625,961	40,519,188
Contingency	-	3,185,615	4,152,532
Total Project	31,310,450	44,811,576	44,671,720

Appendix

Projects Update

Project	Scope	Objectives	Current Status	Issue	Potential Risks	Risk Probability
Stabilization	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	<u>Defects Resolved Apr/May (82)</u> 7 Market Facing Defects 75 Internal Defects <u>Remaining in May (82)</u> 4 Market Facing Defects 78 Internal Defects	None	Complexity of issues is greater than expected.	Low
Deferred Defects	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	<u>Defects Resolved Apr/May (47)</u> 27 Market Facing Defects 20 Internal Defects <u>Remaining in May (25)</u> 4 Market Facing Defects 21 Internal Defects	None	Resource availability and delivery timelines may be impacted by Stabilization efforts	Medium
Data Center Migration	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	All storage hardware is installed and configured. Wave 1 in progress; about two weeks behind schedule. Wave 2 started four weeks early. Wave 4 on track to start four weeks early.	Additional network equipment required to handle TCC3 to BCC3 connectivity; change request in progress.	Schedule slippage due to higher than expected migration complexity.	Medium
Zonal Decommission	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
Information Lifecycle Mgmt Phase 2	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.	Restructured execution phase to work around system constraints. Gated to Execution Phase 1 on 04/29.	None.	Previous risk of resource availability has been mitigated and reduced as a result of restructured execution phase. Delivery timelines may be impacted by resource availability.	Medium
Settlement System Upgrade	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.	Completed the mapping of requirements to each module. Started working on the Conceptual Design document.	None	Previous risk of resources being pulled from project to work other priorities remains. Prioritizing Impact Analysis and Cost Benefit Analysis work against project tasks and timelines will be reviewed if demand increases again.	Medium
Data Research & Reporting	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	Resource availability and delivery timelines may be impacted by Stabilization efforts.	Low
Data Agg Performance Improvements	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 4 and 5 million AMS ESIIDS.	None	Unable to resolve performance issues to meet expected volumes may impact delivery schedule.	Medium

Projects Update

Enterprise Records Mgmt	Define and implement ERCOT strategy for managing email, documents and legal records.	Control growth of email and document archives. Support regulatory compliance activities.	Go-live on 04/29. Project signoff en route for signatures.	None	None	n/a
SCR760 Changes Needed for Information Model Manager and Topology Processor for Planning Models	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.	Requirements for SCR760-3, SCR760-7 and SCR760-8 finalized with the vendor. Estimate and SOW in progress.	None	Inability of vendor to deliver quality software in a timely manner as scheduled.	High
NPRR 285 Generation Resource Base Point Deviation Charge Corrections	1. Provide a Curtailment Flag to QSEs with Intermittent Renewable Resources (IRRs) through ICCP 2. QSEs to follow base point from SCED when the Curtailment Flag is set 3. Calculate base point deviation charge	An IRR must comply with Dispatch Instructions when receiving a flag signifying that the IRR has received a Base Point below the HDL used by SCED	Currently in test in iTest platform. Market notice sent on April 15. On track for migration to production on May 18. Effective date of base point deviation charge will be June 1.	None	QSE preparation and testing	Low
NPRR293/303 Requirement to Post PTP Obligation Quantities Awarded in DAM (formerly "Requirement to Post CRR Option and Obligation Quantities Cleared in DAM or Taken to Real Time")	Implement the MMS (Market Management System) view and CDR (Current Day Reports) automated report generation (CSV & XML) and MIS (Market Information System) posting.	The posting of these cleared quantities by hour by Settlement Point are necessary for Market Participants to adequately evaluate the results of the DAM including the accuracy of the Network Operations Model used for the DAM.	Currently being tested with a targeted implementation date of May 18.	None	Software defects discovered during testing may delay the release.	Low
NPRR307 Change SASM Offer Procedures	Modify logic to remove cap after the completion of DAM DSP to allow the resubmission of SASM Offers.	Deletes the requirement that the resubmitted SASM offers for a Resource that has been committed in a previous market should be at or below the lowest price of the previous offer up to the portion of the capacity of the previous offer that was not selected.	Currently being tested with a targeted implementation date of May 18.	None	Software defects discovered during testing may delay the release.	Low
NPRR323 Correct DAM Credit Exposure Language and Enable Qualified Expiring CRRs to Offset PTP Bid Exposure	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.	Currently in development with a targeted implementation date of September.	None	Development life cycle may take longer than planned. Software defects discovered during testing may delay the release.	Low
Texas SET 4.0- Acquisition and Transfer of Customers From One REP to Another; Meter Tampering Transactional Solution	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	Development life cycle may take longer than planned. Software defects discovered during testing may delay the release.	Low

Projects Update

NPRR 208 Registration and Settlement of Distributed Generation (DG) Less Than One MW	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 in progress	None	Software defects discovered during testing may delay the release.	Low
NPRR 221 Day-Ahead Market and Retail-Time Market Default Allocation Changes	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"> • Build Settlement tools to support the calculation of default uplift invoice input data • Define new business processes to minimize impacts when a default occurs. • Lodestar changes to support the creation of Default Uplift Invoices • Lodestar changes for Billing & Payment of short-pay amounts 	Business Requirements - Complete. Detail Design in progress	None	Resource availability and delivery timelines may be impacted by Stabilization efforts	Low
NPRR 282 Dynamic Ramp Rate Use in SCED	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 follow for ICCP points on June 22 or earlier.	None	Response to create ICCP points by Market Participants.	Low
NPRR 339 Modifications to Heuristic Rules	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"> • Extend the heuristic rules to determine LMP at de-energized Electrical Busses • Change the treatment of CRR Offers when either the source or sink Settlement Point is de-energized in DAM 	Planning starting in June, with implementation date set during planning phase.	None	Software defects discovered during testing may delay the release.	Low
NPRR 341 Remove Ancillary Service Offers	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 June, with targeted July implementation date during MMS's on-cycle release.	None	Development life cycle may take longer than planned. Software defects discovered during testing may delay the release.	Low
NPRR 329 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.	<ul style="list-style-type: none"> • Align with previously posted zonal market reports that were public. • Allow data to be accessible without a Digital Certificate for affected Entities to conduct business. 	Target May implementation date during MIS/ERCOT.com on-cycle release.	None	Software defects discovered during testing may delay the release.	Low