

Nodal Program Update

Mike Cleary

Sr. VP and Chief Technology Officer

ERCOT Board of Directors

18 May 2010

Agenda

- Program Status
- Market Readiness
- Financials
- Appendix

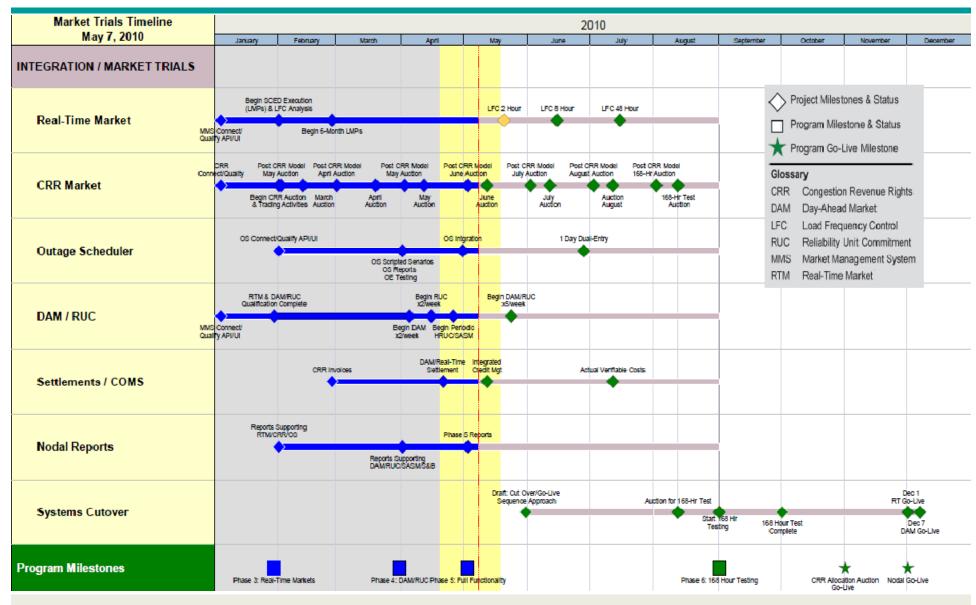


Integrated Nodal Timeline – Go-Live December 1st, 2010

Nodal Program Timeline			2	009				2010											
May 7, 2010	May Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D
ystems Applications																			
MMS Functional Acceptance Testing			MMSS FAT Comp	***															
CMM Functional Acceptance Testing			CMM 4.1 FAT Com	piete					c	MM 42 FAT C	ompiete								
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Independent Market Monitor																			
Break Fix																	Condiste		
SEM	FAT	SAT	EDS												llectone & Status Interim External Mile		On track		
System & External Verification Testing	~	-	-												Co-Live Milestone			but will not affect mile	
SEM Go-Live	SEM Mo	odeling Cuidelines P Fire	I Nodel CIM Model F	EM Go-Live												GLOSSARY	(will effect mitestone :	
ntegration (INT) & Market Trials (MT) Phases		TAC	/800 Approval of SI	IM Go-Live										CMM Cwd	nen Information Mode t Wonitsring Managet estian Revenue Fägh Vread Market	reent	MMS Marke MRS Marke NPROD Nodal	et Management Syste et Roadmess Series (Production	878
INT 2.1 Testing		_		Pha	an 2.1 Kickoff	Phase 2.1 INT T	leating Complete							EDS Early FAT Fund	Delivery System ional Acceptance Ter		RTM Real- RUC Relat SAT Site A	Time Market bility Unit Commitmen Icceptance Testing	at .
Market Trials 2.1 External Testing					\diamond			Phase 3 INT Testry	T Phase 2.1	Complete				LFC Load	Frequency Centrol SCED	Security Constrain	SEM Single	e-Entry Model	
INT 3 Testing								<u> </u>											
Market Trials 3 External Testing							Phase	Run SCI 3 Kickoff			MT Phase 3 Cor	nplete							
INT 4 Testing						_				Pr	DAM	ompiete							
Market Trials 4 External Testing									Phase 4	Kickoff 🔷	x2Neek S&B	NT Phase 4 Co	mplete						-
INT 5 Testing										_	RUCi2Meek	e 5 INT Tests	g Complete						-
Market Trials 5 External Testing										Pha	ise 5 Nickoff 🔷	Urc-2w	UTC-8hr	LFC-48hr		MT Phase 5	Complete		-
INT 6 Tesing										_	Run Full Noo	al Systems			Ph	ase 6 INT Testing	Complete		-
Market Trials 6 External Testing															Start 168	r Testing		-	MT
teadiness																	e Complete	-	Con
Market Readiness		SEM MP T	nina																-
External Outreach		Comple		Con	duct Site Visits					Site Visite Com							Stand By S		
Market Training				MRS	1: 2.1 Connectivity	Test		MRS 2: Market	Trials MR	IS 3: General M	arket Readiress			MR	4: 168 Hour Tes		Market Train	ning Complete	
Metrics Tracking & Assessment								Metrics Map	ped to MTP	-					-			Conduct Me	atics Rep
ERCOT Readiness														NERC:		DT Personnel			-
Internal Processes, Procedures & Training							MT3 Ph	P Complete	MT4 Pro	cedures MTS omplete Co	mplete	AT 5 Process		As of State		DT Personnel Insining		ERT Post-Go Transition Pl	taris
Operational Readiness											Process ms Complete	Cagrama Com	piete	-	MTS P Comple	P		-	
System Cut-Over											Disit: C	CU OVERGO LIV	e Sequence Ap	proach	•				-
-					Phase 2			System Availa Monitoring	isiliy	Spring DST Healthcheck				Draft2: Cut On	r/Go-Live Seque	nce Approach			-
Environment Configuration & Management			-	Phase 2	1 Run Books Fal	<u> </u>	Phas	3.445		<u> </u>	evices Monitoring	SLA Conforma	nce Monitoring						
Load & Performance; Failover & Fallback;			Phase 2.1	Performance	Healt	hcheck		Books		Phase 4 Perform	nance Verification & curity Testing				Fallowr/Securit	y Testing	4		-
Security Testing					Phase 2.1 Security	Hitel	P	tase 3 Performance Failows/Security T	Verfication i		ase 5 Performance V Failover/Security	effortion &							
rogram Milestone s			4		Security			Parlowersecurity T	eachg		Palloverbecuity	and a				Nodel	Cutover	Nodel	Go-Liw
rogram milestories			SEM Go-L	han	Phase 2.1 Market	Connection		Phase 3: Real-Tim		Director	DAWRUC Phin				Phase 6: 162	in the second second	CRRAIN	cation Auction	^

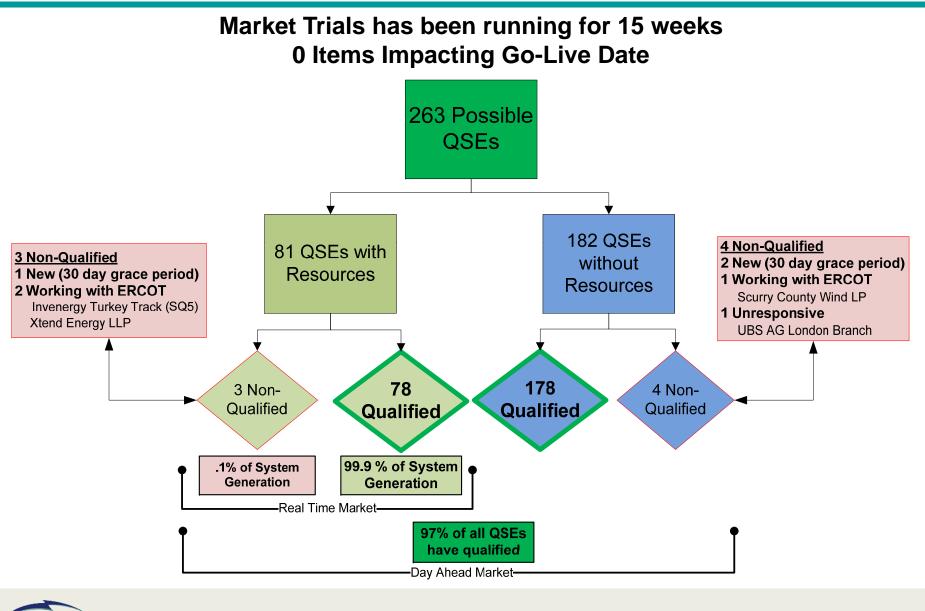


2010 Market Trials Timeline – Go-Live December 1st, 2010





ERCOT Board of Directors



ERCC

Market Trials has been running for 15 weeks **Market Quality Testing and Operational Readiness**

Achievements within Market Trials:

- CRR
 - Four monthly CRR auctions and one Balance of the Year auction have been completed and invoiced
- **Real Time Markets**
 - SCED •
 - Real Time settlements
- DAM / RUC
 - Twelve DAM runs have been completed
 - Running twice a week, expected to start three times per week this week: Tues, Wed, Thur •
 - DRUC has been running in conjunction with DAM for 3 weeks •
 - DAM Settlements are being completed in conjunction with the DAM •
 - Settlement and extraction data has been available since Mid-May
 - Continual strong participation from the Market Participants (Averaged 176 QSEs / DAM run)
- **Ancillary Services** ٠
 - SASM
 - Running in conjunction with DAM for past three weeks _
 - Will run as needed with Ancillary Services _
- Credit •
 - Credit Module went into effect on May 14th



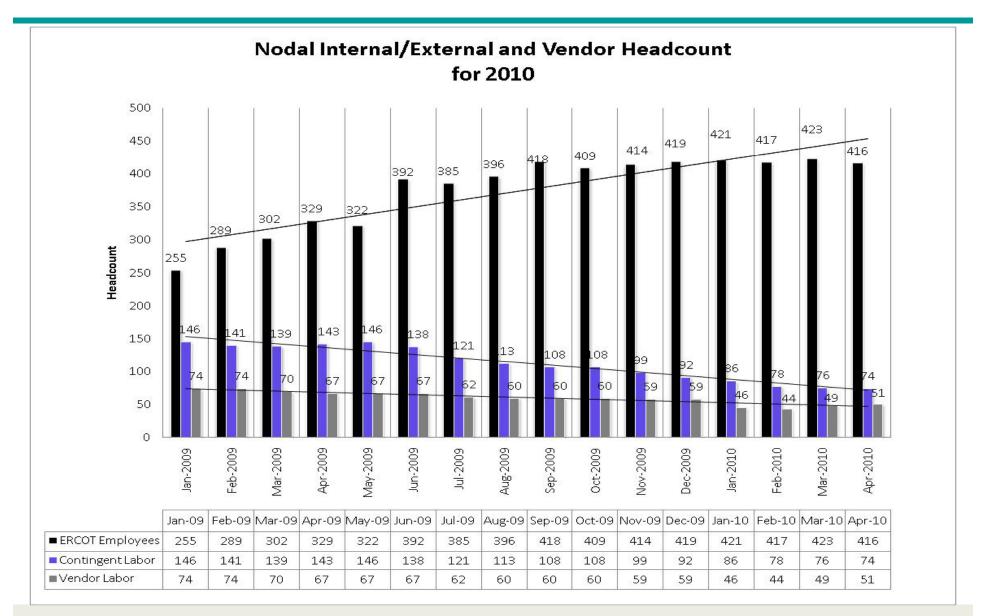
Market Trials has been running for 15 weeks Market Quality Testing and Operational Readiness

Upcoming Milestones for Market Trials:

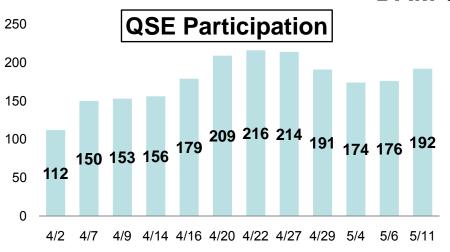
- DAM / RUC 3 times per wk
 - Tues, Wed, Thurs this week
- Closed Loop LFC
 - 2 hour test will occur this month
 - 8 hour will occur in mid June
- Reporting support for DAM/RUC/SASM
- CMM Module for NPRR 206
- DAM / RUC 5 times per wk
 - Starts the week of May 24th
- 168 HR Test
- System Cut-Over
- Go-Live



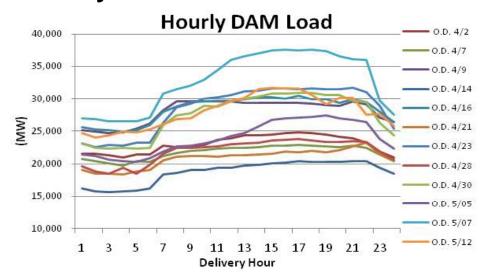
Nodal Internal/External and Vendor Headcount 2010







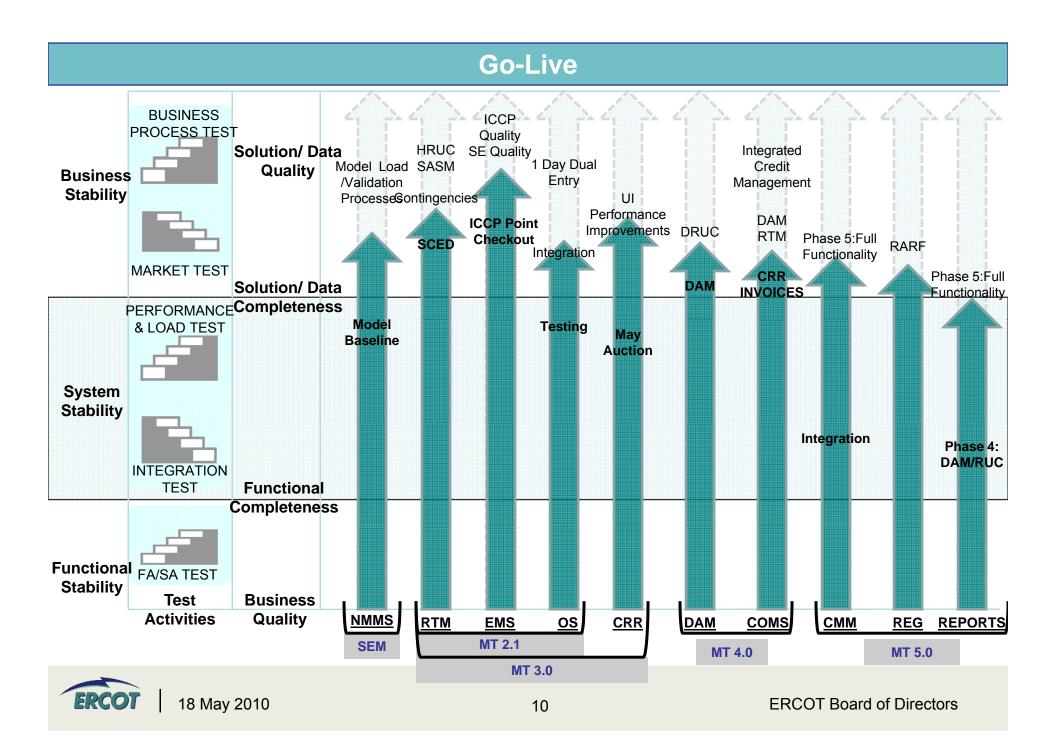
DAM Summary







ERCOT Board of Directors



Nodal Program Risks & Issues

Risk/Issue	Impacted Milestone	Target	Category	Probability	Severity	Status
Market Interaction Operating Level Agreements (OLAs) Need to determine operating level agreements associated with market interactions to assist ERCOT in establishing operational thresholds: -Network Model Management -CRR sizing -Reporting	Program	April/ May 2010	Scope / Budget	High	Low	 Phase 4 OLA definitions complete Phase 5 OLA definitions drafted, pending approval Regular updates to NATF and NDSWG 200,000 submissions total; TAC Remanded to 5/19 WMS meeting Reports continue to become available as Market Trials activities ramp-up. Performance monitoring continues
Market Design Assessment Risk around the protocol traceability project and the market results as each phase of market trials becomes active.	Program	August 2010	Scope / Budget	Low	High	 Building experienced market design team to review and assess design and protocol alignment with market trials results
Operational Readiness Operational readiness of the Nodal systems and business processes are an increasing risk at this point in the program	Program	September 2010	Scope / Schedule/ Budget	Med	High	 Organizational capability assessments and improvement recommendations are under review by executive management The PMO has and will continue to identify critical deficiencies and implement mitigation strategies to ensure delivery

ERCOT

Reminder of Nodal Offer Caps and Prices

- Prices higher than the \$2,250 offer cap were observed in the Real-Time Market in the past month
 - Per PUCT rule and Protocols (4.4.11), there are offer caps from resources, but not price caps
 - Also described in protocols are shift factors and power balance penalties that can result in prices above offer caps
- On May 5, from 3-6pm there was a scenario that created prices up to \$3,759:
 - Transmission constraints were active in nodal

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- Group of resources were lost in a data loading process resulted in under-generation
 - Resulted in a simulated under-generation situation with active constraints
- As designed, the Real-Time market invoked penalty factors for both:
 - Under-generation (power-balance) penalty of \$3,001
 - Constraints/congestion added on top based on shift factor times penalty factor
 - 345 kV: \$4,500/MW
 - 138 kV: \$3,500/MW
 - 69 kV: \$2,800/MW
 - Penalty values for market trials set in Congestion Management Working group with ERCOT, Market, and IMM
 - Price spikes may be only local and may not dramatically increase Load Zone price that Load is settled on
 - Final penalty factors to be set through ERCOT and stakeholder process and brought to TAC/Board of Directors prior to go-live.
- Even with NPRR091 of \$180 or 18 heat rate x GasIndex, prices can be as high as \$3,000

Participant Readiness Touch Points

		20	10	
	Мау	June	July	August
Meetings	• NATF 5/4	• NATF 6/1 and 6/29	• TBD	• NATF 8/3 and 8/31
Training	 Nodal 101 Transmission 101 Generation 101, 201 CRR – instructor-led NMMS Economics of LMP NOIE QSE Operations 	 Nodal 101 LSE 201 Generation 101, 201 Economics of LMP CC Workshop VC Workshop AS Workshop Retail Workshop 	 Nodal 101 Transmission 101 Generation 101, 201 Basic Training Program NOIE QSE Operations Settlements 301 	 Nodal 101 Transmission 101 Generation 101, 201 Basic Training Program NOIE QSE Operations Settlements 301
Outreach	 Standby site visits Metrics monitoring Bi-weekly TSP calls MRS #4 Cutover 	 TSP Outage Scheduler Road Show begins Phase 5 Metrics launch 	 Qualification assessment (MP17) Standby site visits 	 Standby site visits
Market Trials	 Weekly Trials calls 2 hr system-wide LFC test Phase 5 Market Trials initiates 	 Weekly Trials calls 8 hr system-wide LFC test Full market trials functionality continues 	 Weekly Trials calls 48 hr system-wide LFC test Verifiable costs in execution NPRR206 in execution 	 Weekly Trials calls Prepare for 168 hr test



Next 60-days of Workshops

Course	Start Date	Location
Transmission 101	May 18	CPS Energy (San Antonio)
Network Model Management	May 20	CPS Energy (San Antonio)
Basic Training Program	May 24	Energy Plaza (Dallas)
NOIE QSE Operations	May 24	Austin Energy Town Lake Center (Austin)
MRS #4 Cutover	May 25	Hilton – Austin Airport (Austin)
Generation 201	May 26	TXU (Dallas)
Transmission 101	June 1	ERCOT Met Center (Austin)
Combined Cycle Workshop	June 2	Suez Energy (Houston)

Enrollment at: http://nodal.ercot.com/training/courses/index.html



Next 60-days of Workshops (continued)

Course	Start Date	Location
Verifiable Cost Workshop	June 3	Suez Energy (Houston)
Generation 101	June 8	LCRA (Austin)
Market Settlements 301	June 9	Suez Energy (Houston)
Generation 201	June 17	LCRA (Austin)
Basic Training Program	June 21	ERCOT Met Center (Austin)
Load Serving Entity 201	June 23	Austin Energy Town Lake Center (Austin)
ERCOT 101 for Wind Generation	June 28	ERCOT Met Center (Austin)
Transmission 101	June 29	Energy Plaza (Dallas)
Transmission 101	July 13	CenterPoint Energy (Houston)

Enrollment at: http://nodal.ercot.com/training/courses/index.html

CRR Metrics

Metric Name	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes
Market Participant Met	rics								
MP15(B) CRR Connectivity Qualification	Green	CRRAHs	Even weighting	Active P	hase 3 N	/letric	4.3%	Successful submission CRR transactions	64/70 CRRAHs qualified.
CRR3 Operation of CRR Auctions and Allocations	Green	CRRAHs	Even weighting	93.8%	0%	0%	6.2%	Participation in at least one of the last two auctions or allocations.	60/64 CRRAHs with adequate participation in May or Balance of Year auction or allocation
ERCOT Metrics		1 1			1				
CRR3 Operation of CRR Auctions and	Amber	ERCOT	N/A	N/A	N/A	N/A	N/A	Auction results distributed to participants per schedule in CRR Handbook	5/2 "2010 Balance of year auction results" moved to 5/5 due to Nexant resources onsite.
Allocations	Green	ERCOT	N/A	100%	0%	0%	0%	Allocated Revenue Rights in statistical sample = 100% accurate	Results of Source/Sink prices / CRR Clearing prices report (avail 5/6)
	Green	ERCOT	N/A	N/A	N/A	N/A	N/A	CRR Auction Result for MP(n) – CRR Auction Invoices for MP(n) = 0\$	S&B validated that auction invoices reflected awards per CRRAH for March, April, and May auctions, .
CO8 Verify CRR Auction Invoices	Green	ERCOT	N/A	100%	0%	0%	0%	System Generated CRR Auction Invoices not posted = 0	March 2010 Monthly = 40 of 40 April 2010 Monthly = 38 of 38 May 2010 Monthly = 48 of 48

Notes:

1. Added CRR3 participation threshold (market segment) - >= 80% participation (GREEN), >= 50% and < 80% (AMBER), < 50% (RED)

Real-Time Metrics

Metric Name	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes	
Market Participant Met	rics									
MP3 Market Submissions	Green	QSERs	Generation Ratio Share	99.0%	1.0%	0.0%	0.0%	Successful submission	81/84 QSERS Qualified (includes QSEs with Load Resources).	
Connectivity Qualification	Green	QSEs	Even weighting	ctive Pha	se3 and	4 Metr	ics2.2%	of RT and DAM transactions	176/182 QSEs qualified Below 95% threshold for overall GREEN.	
MP15-A Real-time Market Participation	Green	QSERs	Generation Ratio Share	99.0%	1.0%	0.0%	0.0%	Weekly average of daily SCED submissions	77/79 QSERs above 95% weekly average f SCED submissions.	
EMO6 Individual LFC Testing	Green	QSERs	Generation Ratio Share	91%	0%	0%	9%	80% of system-wide generation has completed individual QSE tests for LFC	56/76 QSERs completed their individual LFC test	
ERCOT Metrics				1	I		1			
MO4 Verify SCED Execution Quality	Green	ERCOT	N/A	100%	0%	0%	0%	All successful SCED executions passed the post-execution price validations.	4/6-4/19 period - 4,030 Price Validation runs with no rule violations	
MO5 Generate 6 Months of LMPs	Green	ERCOT	N/A	98.1%.	0%	1.9%	0%	95% of SCED executions completed with LMPs posted on MIS.	4/6-4/19 period, 3,985 out of 4,063 SCED runs with LMPs posted.	

Notes:

1. ERCOT Criteria added to MP3 and MP15(B) – "ERCOT scores in connectivity will mirror the MP scores."



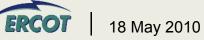
Day-Ahead Market Metrics

Metric Name	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes
Market Participant Met	trics								
MP16 DAM	Green	QSERs Generation Ratio Share 99.0%		0.0%	1.0%	0%	Participation in 50% of	77/81 QSEs with Resources	
Participation	Amber	QSEs	Even Weighting	73.1%	7.7%	16.5%	2.7%	the Day-Ahead Market runs	133/182 QSEs w/o Resources
ERCOT Metrics									
MO8 Verify DAM Execution Quality	5/19/2010	ERCOT	N/A	N/A	N/A	N/A		DAM executions pass the post-execution price validations	Report in progress
MO9 Generate DAM LMPs	5/19/2010	ERCOT	N/A	N/A	N/A	N/A	N/A	95 percent Day-Ahead Market execution as evidenced by Day- Ahead LMP postings	Report in progress

Notes:

1. MP16 – Metric is based on a 2 week rolling average (5/11, 5/6, 5/4, 4/29).

2. MP16 – 96.4% Load participating.



Network Modeling Metrics

Metric Name	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes
Market Participant Me	trics								
MP14-C TSP Model Validation	Green	TSPs	Ownership Ratio Share	99.9%	/e 4 Met i	ic _{0.0%}	0.0%	Network Model data validated by TSP	24/28 TSPs have submitted model validation e-mail to ERCOT.
	Green	QSERs	Generation Ratio Share	100%	0.0%	0.0%	0.0%	Expected State Estimator telemetry submitted.	78/78 complete. 3502 total SE points provided
MP6 Telemetry Compliance with Nodal	Green	QSERs	Generation Ratio Share	100%	0.0%	0.0%	0.0%	Expected SCED telemetry submitted.	78/78 complete. 7629 SCED points provided
Protocols 3.10.7.5	Green	TSPs	Ownership Ratio Share	99.3%	0.0%	0.0%	.7%	Expected TSP telemetry per ICCP Handbook submitted	14/17 TSPs above 98% threshold for GREEN. 143 points outstanding
N2 Telemetry ICCP System Failover	Green/White only	QSERs	Generation Ratio Share	11.8%	0%	0%	88.2%	ICCP Failover test completed successfully prior to the 8-hour LFC test.	18/78 QSERs completed ICCP telemetry failover test
MP18 Mapping of Resources and Loads in Private Use Networks	6/2/2010	QSERs	Generation Ratio Share	N/A	N/A	N/A	N/A	# of QSE(n) PUN Points Provided / # of QSE(n) PUN Points Expected	306 points across 7 QSEs with Resources. 15 points still assigned to TSP.
MP23 Telemetry Quality (MP to ICCP	7/14/2010	TSPs	Ownership Ratio Share	N/A	N/A	N/A	N/A	# of TSP(n) Suspect/Bad points provided / # of TSP(n) points total	1356 Suspect/Bad points (97.9% good quality).
server)	ICCP Generation		N/A	N/A	N/A	N/A	# of QSER(n) Suspect/Bad points provides / # of QSER(n) points total	871 Suspect/Bad points (94.9% good quality)	

Notes:

1. MP6 does not include 405 QSE CB and DSC points from TSP outreach. ERCOT is determining whether these rollback into the QSER MP6 measurement



Network Model Metrics

Metric Name0	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes
ERCOT Metrics									
EMO9(A) State Estimator Standards Performance	5/19/2010	ERCOT	N/A	N/A	N/A	N/A	N/A	State Estimator converges 97% during monthly test period	March 91.4% convergence
EMO9(B) RTCA Modeling Differences	5/19/2010	ERCOT	N/A	N/A	N/A	N/A	N/A	95% of values matched between Zonal and Nodal Network Models - Impedances - Dynamically and Non- dynamically Rated Lines - Load Tap Settings	Measurement excludes pseudo switches and multi-section lines
EMO9(C) RTCA CSC Comparison	6/2/2010	ERCOT	N/A	N/A	N/A	N/A	N/A	The % of Anomalous and Auto-Disabled Measurements is less than 2% of Total Measurements	April Nodal 2.58% March Nodal 3.17% Zonal hovers ~ 1.7%
EMO9(D) Validate Zonal and Nodal Security Analysis Results	7/14/2010	ERCOT	N/A	N/A	N/A	N/A		CSC Pre-contingency SE Flows within 5% (Hourly snapshot)	Measurement establishes baseline flows on Commercial lines to indicate the significance of Psuedo modeling and multi- section lines on the SE flows.
EMO10 Anomalous / Auto-Disabled Telemetered Points	9/8/2010	ERCOT	N/A	N/A	N/A	N/A	N/A	90% of active constraints in Zonal RTCA are also detected in Nodal RTCA	To be determined

Notes:

1. SE performance requirements in EMO12 moved to EMO9(A)



Other Readiness Metrics

Metric Name	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes
Market Participant Met	rics	<u> </u>			1				1
MP20 Outage	Green	QSERs	Generation Ratio Share	Active P	hase 3 M	/letric	1.196	Successful	75/81 QSERS qualified.
Scheduler Connectivity Qualification	Cineen	TSPs	Ownership Ratio Share	99.8%	0%	0%	.02%	submission of OS transactions	23/25 TSPs qualified.
MP11 Resource Registration ERCOT Metrics	Green	REs	Registered MW Capacity Ratio Share	99.6%	0.0%	.4%	0.0%	Decision Making Authority form submitted, and GENMAP validated	154/157 Resources completed.
E1 ERCOT Staff Completes Training	Green	ERCOT	N/A	100%	N/A	N/A	NI/Δ	Training plans must be adhered to for highly impacted departments	
E9 Develop Nodal Procedures	Green	ERCOT	N/A	100%	N/A	N/A	N/A	Procedures developed 1 month prior an exercised in the appropriate Market Trials Phase	All MT4 and MT5 are developed and the MT4 procedures exercised as scheduled in MT4.
EMO3 Verify Outage Evaluation System Functionality	6/2/2010	ERCOT	N/A	N/A	N/A	N/A	N/A	A test of the Outage Management Process is completed	Will be reviewed at 6/1 NATF





Monthly Financial Review

Don Jefferis Interim Director – Nodal Financial Management Office 18 May 2010

<u>Schedule</u>

- 3 month transition began March 2010
- Targeted transition completion date June 16, 2010

Status of Responsibilities

- Substantially all FMO day-to-day responsibilities transferred to ERCOT Budget & Financial Analysis team
- Misti Hancock, Mgr. Budget & Financial Analysis, has assumed day-to-day managerial responsibility for all Nodal Finance activities through end of project
- Full internal ERCOT resources post-June Board meeting

						Variance		
Line	Cost Summary	F	orecast	Α	ctual	Fav./(Unfav.)		
1	Internal Labor Costs	\$	2.7	\$	2.6	\$	0.1	
2	Backfill Labor Costs		0.1		0.2		(0.1)	
3	External Resource Costs		3.2		3.1		0.1	
4	Software & Software Maintenance		0.2		0.2		-	
5	Hardware & Hardware Maintenance		0.5		0.4		0.1	
6	Other		-		-		-	
7	Sub-total Direct Project Costs	\$	6.7	\$	6.5	\$	0.2	
8	Allocations		0.3		0.3		-	
9	Finance Charges		1.1		1.1		-	
10	Sub-total Indirect Project Costs	\$	1.4	\$	1.4	\$	_	
11	Total		8.1	\$	7.9	\$	0.2	
_								

Amounts in Millions

Financial Review – LTD Performance through April 2010 Forecast vs. Actual

						v	ariance	Est	imate to
Line	Cost Summary	Fo	precast ¹	A	Actual	Fav	/./(Unfav.)	Со	mplete ²
1	Internal Labor Costs	\$	66.5	\$	66.4	\$	0.1	\$	17.7
2	Backfill Labor Costs		5.7		5.8		(0.1)		0.6
3	External Resource Costs		265.7		265.6		0.1		14.7
4	Software & Software Maintenance		27.1		27.1		-		1.8
5	Hardware & Hardware Maintenance		48.1		48.0		0.1		1.8
6	Other		2.1		2.1		-		0.2
7	Sub-total Direct Project Costs	\$	415.2	\$	415.0	\$	0.2	\$	36.8
8	Allocations		21.2		21.2		-		1.8
9	Finance Charges		30.1		30.1		-		21.0
10	Sub-total Indirect Project Costs	\$	51.3	\$	51.3	\$	-	\$	22.8
11	CTO Contingency Fund Unutilized		-		-		-		4.9
12	Board Discretionary Fund		-		-		-		112.8
13	Total	\$	466.5	\$	466.3	\$	0.2	\$	177.3

Amounts in Millions

Note 1: Forecast consists of re-forecast from April 30, 2010 plus Q2 NCRs

Note 2: Estimate to Complete (ETC) consists of re-forecast from April 30, 2010 plus Q2 NCRs



18 May 2010

Financial Review – CTO Contingency Fund Q2 Risk Items Update

Line	Major Activities/Adjustments	Likely to Spend ¹	Risk	Approved NCRs	Unutilized Risk Funds
1.	•Credit Management	н	\$ 1.2	\$0.2	\$1.0
2.	 Infrastructure hardware & application upgrades 	L	1.0	-	1.0
3.	•Expected Nodal Change Request Anticipated	Н	1.0	0.2	0.8
4.	•Market Analysis	н	0.8	-	0.8
5.	•Business Process Monitoring & Cutover Coordination	Н	0.7	-	0.7
6.	Current Open Change Requests	н	0.3	-	0.3
7.	Network Model Management	н	0.2	-	0.2
8.	Independent Market Monitor	L	0.1	-	0.1
	Total		<u>\$ 5.3</u>	<u>\$0.4</u>	<u>\$ 4.9</u>

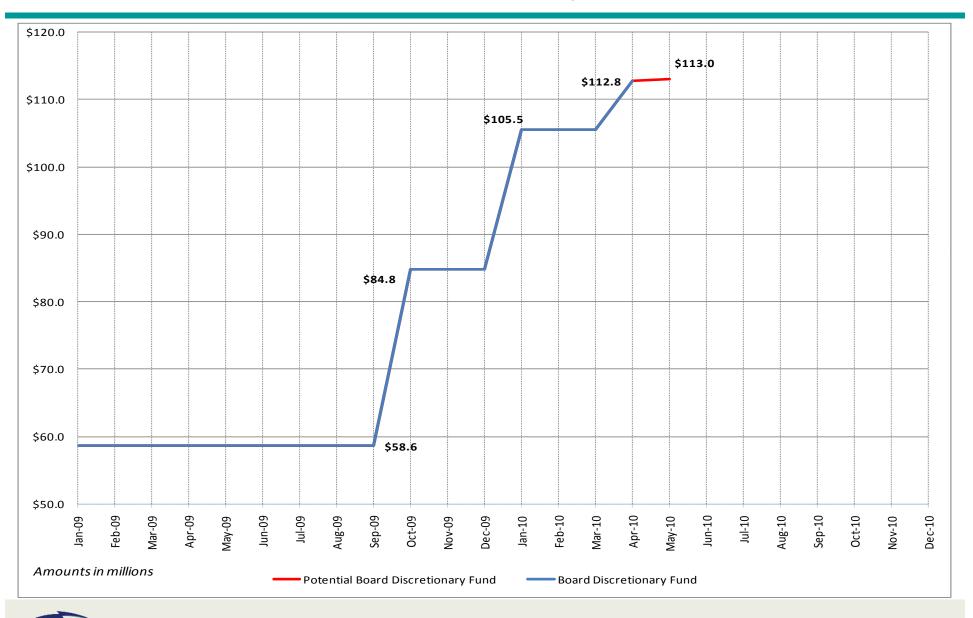
Amounts in Millions

Note 1: H – high probability risk will materialize, L – low probability risk will materialize



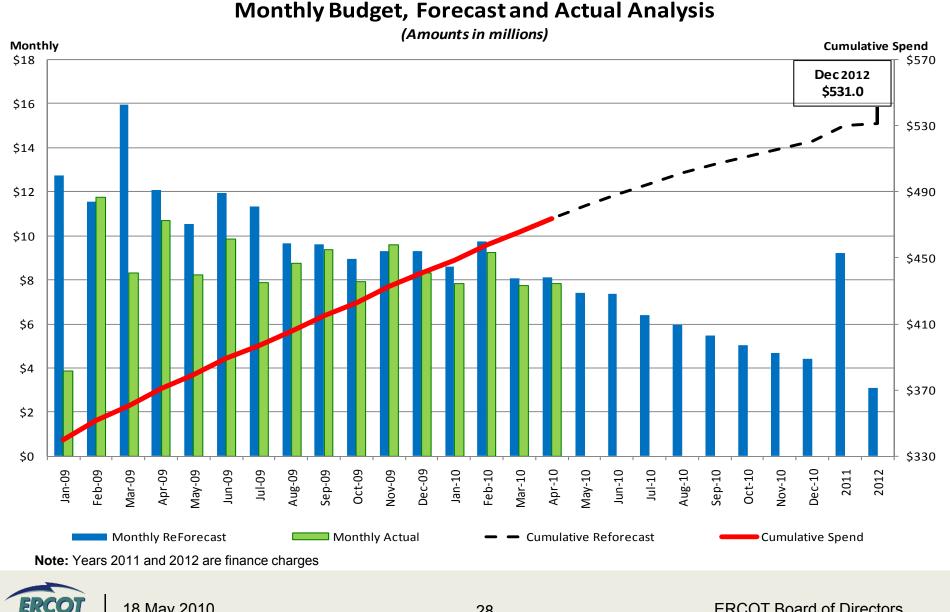
18 May 2010

Financial Review - Board Discretionary Fund



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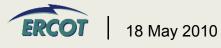
Financial Review – Program Cost Management 2009 and 2010 Forecast



Questions?



Appendix



Nodal Program Risks & Issues: Definitions

Definitions for Category, Probability and Severity of Risks & Issues:

Category

- <u>Scope</u>: Will require a scope change
- <u>Schedule</u>: Will require a schedule change
- <u>Budget</u>: Will require a budget change

Probability

- <u>High</u> : Probability to occur is ≥ 90%; perceived impact would require a Change Request over the next 1-3 months
- <u>Medium</u>: Probability to occur is between 31 89%; perceived impact would require a Change Request over the next 4 -10 months
- <u>Low</u>: Probability to occur is \leq 30 %; not expected to require a Change Request

Severity

- <u>High</u>: Milestone impact, or budget impact >\$250,000
- <u>Medium</u>: Milestone impact but expected to be mitigated, or budget impact between \$0 - \$250,000
- <u>Low</u>: No milestone impact, or no budget impact



Defect Definitions

Severity	Definition					
Severity 1: Data loss/critical error	such as syste	render unavailable the critical functions of the system under test. These include errors em errors, application failures, loss of data, incorrect calculations, inability to transfer o access database, and inability to display information to the user.				
Severity 2: Loss of functionality w/o workaround	Defects that render unavailable partial functionality of the system under test with no wor available. These include errors such as incorrect information displayed to the user, infor updating correctly, extracts failing, and missing export files.					
Severity 3: Loss of functionality with workaround	Defects that render unavailable partial functionality of the system under test with a work available. These include errors such as incorrect message displayed, optional informatic or not displayed correctly, not receiving e-mail notifications, and incorrect defaults.					
Severity 4: Partial loss of a feature set	Defects that affect a feature that is not executed on a frequent basis and there is not a signific impact on the system. These include errors such as help information, filtering, and consistent naming.					
Severity 5: Cosmetic/documentation error	Defects that are cosmetic and need to be resolved, but are not a factor in the functionality or stability of the system. These include errors such as field alignment, report formatting, drop down list order, fonts, column order and documentation that is inconsistent with the system(s) as tested.					
		Prescription in Quality Center				
	Priority 1	Must fix ASAP				
	Priority 2	Must fix prior to Go-Live				
	Priority 3	Not critical to fix before Go-Live				
	Priority 4	Minor system/user impact				
	Priority 5	No system/user impact				

