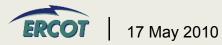


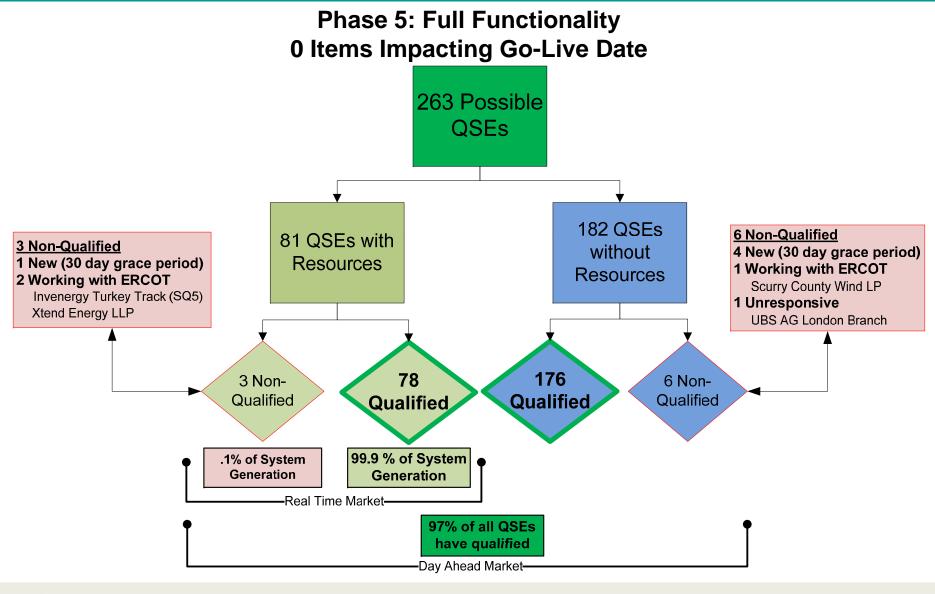
Nodal Program Update

Special Nodal Program Committee 17 May 2010

- Program Status
- Market Readiness
- Financials
- Appendix



197 Days to Go-Live





197 Days to Go-Live

Phase 5: Full Functionality Market Quality Testing and Operational Readiness

Achievements within Market Trials:

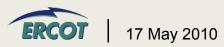
- Market Trials has been running for 13 weeks
- Phase 2.1: Market Connectivity
 - Real Time / Day Ahead
- Qualifications
 - 97% of the QSEs have qualified
 - 99% of network model has been validated
- CRR
 - Three monthly CRR auctions have been run and invoiced
- Phase 3.0: Real Time Markets
 - Six month LMP analysis started on March 1st
 - The \$2,250 cap on prices has only been reached a few times since 03/04/10
- Phase 4.0: DAM / RUC
 - Nine DAM runs have been completed
 - Running twice a week
 - DRUC
 - DAM / Real Time Settlement
 - Strong participation from the Market Participants (191 QSEs on Thursday April 29th)

Upcoming Milestones for Market Trials:

- Reporting support for DAM/RUC/SAS
- CMM Module
- DAM / RUC 3x/wk
- DAM / RUC 5x/wk
- Closed Loop LFC
- Phase 5: Full Functionality
- 168 HR Test
- System Cut-Over



To be provided before SNPC meeting

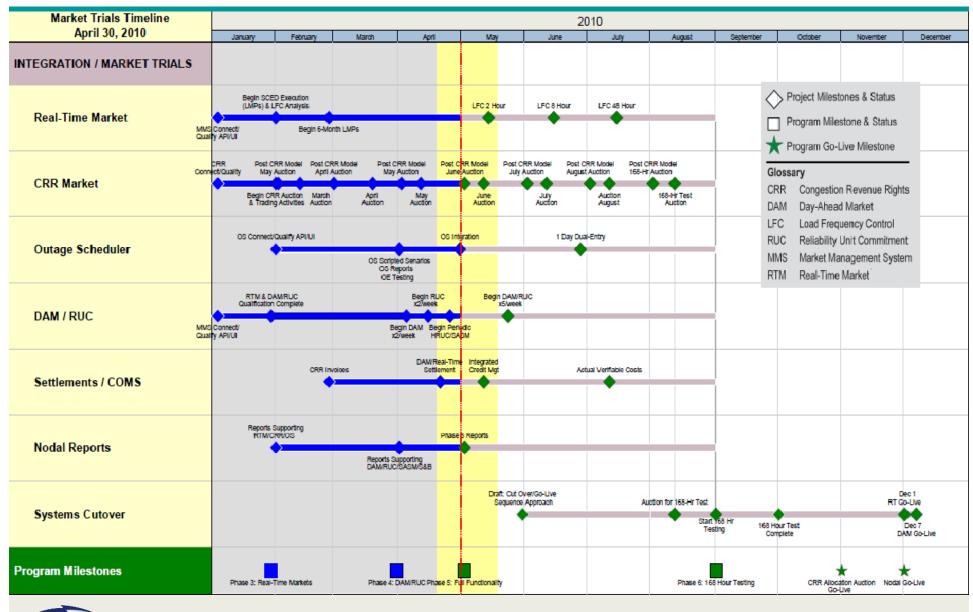


Integrated Nodal Timeline – Go-Live December 1st, 2010

Nodal Program Timeline				2009					2010										
April 30, 2010	May Jun	n 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 Ca	mplete															
			CMM 4.1 FAT C	Complete							amplete								
CMM Functional Acceptance Testing			- *							•									
Independent Market Monitor				-															
Break Fix												É							ÚI.
SEM	FAT	SAT	EDS											~	Miscisna & Status		Complete		
System & External Verification Testing		-													e Intarim External Mile 6 Ga-Live Milestone	istono & Status	Not on track,	, but will not affect mit	lestone dist
SEM Go-Live	SEM M		Inal Nodal CIM Mod	el Posted												GLOSSAR		wil affecit milestone	dates
ntegration (INT) & Market Trials (MT) Phases		т	AC/800 Approval o	SEM Clo-Live										CMM Ciec	men information Mos St Monitoring Menage gestion Revenue Pag	el ment	MV5 Mark	et Management Syste et Roadin-ess Series d Dracksteine	878
INT 2.1 Testing		_			C Xician	Phase 2.1 INT 1	Testing Complete							DAM Day- EDS Earth	Ahead Market 5 Delivery: System itional Acceptance Tre		RTM Real- RUC Rela	Time Market bility Unit Commitmen	et.
Market Trials 2.1 External Testing				-						2.1 Compilete				LPC Los	d Frequency Centrol	Security Constrain	SEM Single	Acceptance Testing e-Entry Middel petch	
INT 3 Testing				_				Phase 3 NT Tee		-									
Market Trials 3 External Testing							Phase	Run 5 3 Nokoff			MT IPhase 31	ompiette							-
INT 4 Testing										C P	DAM	Complies							-
Market Trials 4 External Testing									Phase	4 Kickeff 🌖	12Neek 558	MT Phase 4.0	Complete						-
INT 5 Testing											RUCk2fweek	Page 5 INT Test	ting Complete						
												UTC-2hr	U C-BY	LFC-Rh					
Market Trials 5 External Testing										Ph	Run Full 3	iodal Systems	-	-	-	MT Phase !	-		
INT 6 Tesing										-						e 6 INT Testing I	Complete		-
Market Trials 6 External Testing																	et Complete		Con
leadiness																			
Market Readiness		SEM MP Comp		Co	nduct Silte Visite					Site Visits Com	piete						Stand By 1	Site Visits	
External Outreach			·	MRS	1:2.1 Connectivit	y Test:		MRS 2: Mark	et Trials - N	IRS 3: General M	arket Readiness				ts 4: 168 Hour Te	-		ning Complete	
Market Training				_	•			Metrics M	append to MT	Planes	•				•			Conduct Me	etics Rep
Metrics Tracking & Assessment	Metho								<u>i i i i i i i i i i i i i i i i i i i </u>										•
ERCOT Readiness							MT3 Ph	P Complete	MT4 P	Toosdures MT5 Complete Co	Procedures			NERC: As of State	ERC	OT Personnel Insining		ERT Post-G	o-Live
Internal Processes, Procedures & Training								\$		MT	Process	MT IS Process Disgrame Cor	eviqu	•	MTB	÷.	-	+	
Operational Readiness										Diagra	ma Complete Draft	Cut OverCo-L	ve Sequence A	pproach	Comp	**			
System Cut-Over					Phase			System Av	and the second se	Spring DST			•	Dreft2: Cut O	willio-Live Seque	nos Approach			
Environment Configuration & Management					NPROD	Build		Monitori	ng	Healthcheck		SLA Conform	ance Monitoring						
						l DST Incheck	Phase Run	3,4 & 5 Books			rvices Monitoring				Periodical Perform	ance Verification			
Load & Performance; Failover & Fallback;			Phase	2.1 Performance	Verfication						curity Testing								
Security Testing					Phase 2.1 Security	Initial Texts	P	Fallower/Security	ce Verficatio y Testing	må Ph	Fallower/Secur	Vertication &				Noder	Cutover	Note	Go-Live
rogram Milestones			7													Sec.	¢ '	* 7	×
Planning Nodal Enhancements			SEM	io-Live	Phase 2.1 Mark	et Connectivity		Phase 3: Real-1	Ime Marketa	Phase 4	E DAWRUC PH	unctionality		Charles Charles	Phase of Enhancements	6: 168 Hour Tes	eing CRR Allo Gr	cation Auction	



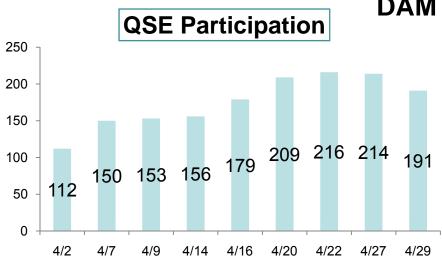
2010 Market Trials Timeline – Go-Live December 1st, 2010

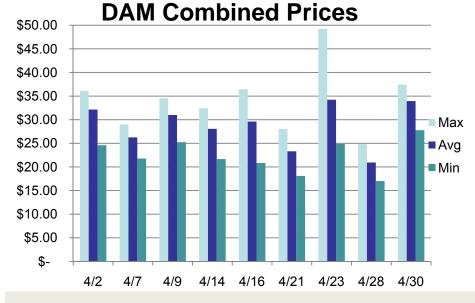


07 | 17 May 2010

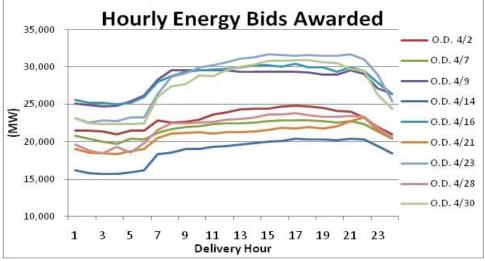
Special Nodal Program Committee

197 Days to Go-Live





DAM Summary



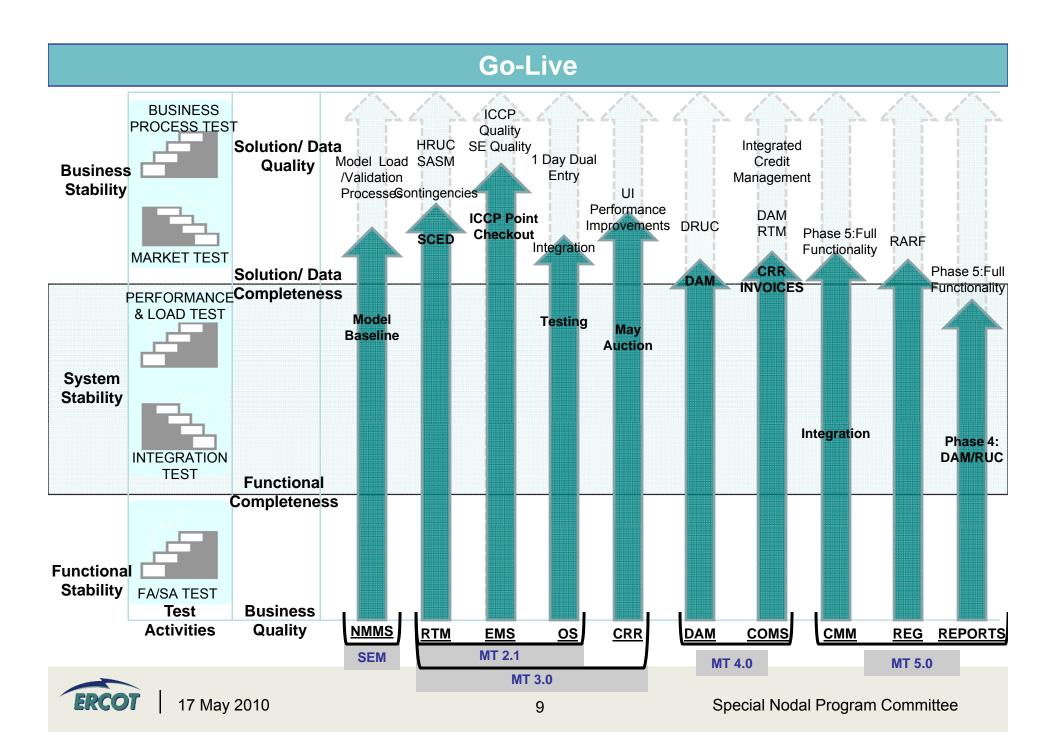
Issues with DAM:

•Intermittent issues with CRR performance and availability since Monday, May 3rd

•Correcting Market Bid/Offer IDs with special characters (4/29)

•The AS Awards file had an issue with publishing after DAM. (4/27)

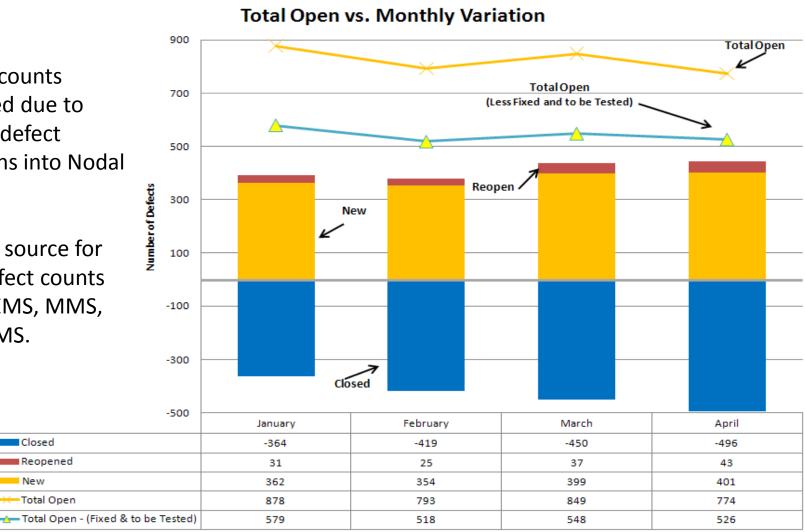
•Encountered a known issue where MMS cannot handle multiple Load Resources mapped to a single Load point in the model (4/13, 4/15)



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; Remanded to 5/19 WMS 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

Nodal Defects Trends - High Priority (Must Fix Before Go-Live)



Nodal Defects

• Defect counts decreased due to planned defect migrations into Nodal ITest.

•Primary source for Open defect counts are EIP, EMS, MMS, and NMMS.

17 May 2010

Special Nodal Program Committee

To be provided before SNPC meeting





Market Readiness

Vikki Gates Readiness & Transformation

Special Nodal Program Committee

17 May 2010

Participant Readiness Touch Points

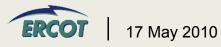
		20	10	
	Мау	June	July	August
Meetings	• NATF 5/4	• NATF 6/1 and 6/29	• TBD	• NATF 8/3 and 8/31
Training	 Nodal 101 Transmission 101 Generation 101, 201 CRR – instructor-led NMMS Economics of LMP NOIE QSE Operations 	 Nodal 101 LSE 201 Generation 101, 201 Economics of LMP CC Workshop VC Workshop AS Workshop 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: <u>http://nodal.ercot.com/training/courses/index.html</u>

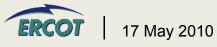


CRR Metrics

Metric Name	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes
Market Participant Me	rics								
MP15(B) CRR Connectivity Qualification	Green	CRRAHs	Even weighting	Active F	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. AMBER/RED scores light up 5/5/2010.	60/64 CRRAHs with adequate participation ir May or Balance of Year auction or allocation
ERCOT Metrics		_		T			-		
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	5/6/2010	ERCOT	N/A	N/A	N/A	N/A	N/A	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)



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Real-Time Metrics

Metric Name	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes
Market Participant Met	rics								Martissbaaren sobreren sobreren sobreren sobreren sobreren sobr
MP3 Market Submissions	Green	QSERs	Generation Ratio Share	99.0%	1.0%	0.0%	0.0%	Successful submission of RT and DAM	81/84 QSERS Qualified (includes QSEs with Load Resources).
Connectivity Qualification	Green	QSEs	Even Ac weighting	tive Phas	e 3)and	4 Metric	S 2.2%	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 for 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									
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	rics								
MP16 DAM	Green	QSERs	Generation Ratio Share	98.9%	0.0%	1.1%	0%	Participation in 50% of	76/79 Rolling Average QSEs with Resources, 70/79 Regular
Participation	Amber	QSEs	Even Weighting	79.1%	6.0%	12.1%	2.8%	the Day-Ahead Market runs	144/182 Rolling Average 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
MO10 DRUC Execution	6/2/2010	ERCOT	N/A	N/A	N/A	N/A	N/A	95 percent DRUC execution	Report in progress

Notes:

1. MP16 – 10 DAM runs (as of the 5/4/2010 run)

2. MP16 – Metric is based on a 2 week rolling average.

3. MP16 – 96.5% Load participating.



Metric Name	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes
	trics								
MP20 Outage Scheduler	Green	QSERs	Generation Ratio Share	98.1% Active P	0.0% hase 3 N	0.0% /etric	1.9%	Successful	74/78 QSERS qualified.
Connectivity Qualification	Green	TSPs	Ownership Ratio Share	99.8%	0%	0%	.02%	submission of OS transactions	23/25 TSPs qualified.
ERCOT Metrics							<u> </u>		i
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



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	Activ 99.9%	ve 4 Metr .1%	i c 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	16/17 TSPs above 95% threshold for GREEN. 357 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 TDSP.
MP23 Telemetry	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).
Quality (MP to ICCP server)	7/14/2010	QSERs	Generation Ratio Share	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	7/14/2010	ERCOT	N/A	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.
EMO9(D) Validate Zonal and Nodal Security Analysis Results	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
EMO10 Anomalous / Auto-Disabled Telemetered Points	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%

Notes:

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



Resource Entity Metrics

Metric Name	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes
Market Participant	Metrics								
MP11 Resource Registration	Green	REs	Registered MW Capacity Ratio Share	97.7%	1.82%	.5%	0.0%	Decision Making Authority form submitted, and GENMAP validated	151/157 Resources completed.



Metric Name	Current Score	Applies to	Percentage (if applicable)	Primary Criteria	Notes
ERCOT Metrics					
E1 ERCOT Staff Completes Training	Green	ERCOT	100%	Training plans must be adhered to for highly impacted departments	15 out of 15 highly impacted departments are up to date with their training plans.
E9 Develop Nodal Procedures	Green	ERCOT	100%	Procedures developed 1 month prior an exercised in the appropriate Market Trials Phase	All MT4 and MT5 are now developed and the MT3 procedures were exercised during MT3 as scheduled. MT4 procedures on target to be exercised by the end of MT4.





Monthly Financial Review

Don Jefferis Interim Director – Nodal Financial Management Office

Special Nodal Program Committee

17 May 2010

Financials to be provided before SNPC meeting.



Questions ?

17 May 2010

Special Nodal Program Committee

Appendix

17 May 2010

Special Nodal Program Committee

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

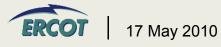
Severity

- <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	Defects that render unavailable the critical functions of the system under test. These include errors such as system errors, application failures, loss of data, incorrect calculations, inability to transfer data, failure to 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 workaround available. These include errors such as incorrect information displayed to the user, information not 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 workaround available. These include errors such as incorrect message displayed, optional information missing 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 significant 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		



Critical Defect Definitions

- Critical defects are required to be fixed before go-live
- Critical defects are identified as:
 - Severity 1
 - Severity 2
 - Severity 3 priority 1 & priority 2
 - Severity 4 priority 1 & priority 2
 - Severity 5 priority 1 & priority 2
- A continual defect review process will ensure that, after review and approval by the business, non-critical defects are deferred in Quality Center with adequate documentation (e.g., test script results, impacted functions, recreation steps, workarounds)

NOTE: All documented workarounds for deferred defects will be provided to the ERCOT readiness team for review and inclusion in desk procedures, when applicable



Audit	Audit Points Identified	Audit Points in Execution	Date to Complete Last Point
Utilicast Report 8	6	6 complete	2011*
Utilicast Report 10 (Cleary)	17	2 in progress; 15 complete	6/1/10**

* Audit point required for go-live complete with the construction of the TCC1 expansion in Taylor.

**Updated end date to reflect date to complete remaining audit points



Audit Points to Address from Utilicast Report 8

ID	Description	Action Plan	Responsible Director	Responsible Manager	Target Date
UTI08- 05	There should be immediate investment in new data center capacity to allow for expansion of IT infrastructure to support the Nodal Program.	/	R. Morgan	David Forfia	COMPLETE - TCC1 expansion ensured sufficient space for Go-Live.

