

Nodal Program Update

Special Nodal Program Committee 22 March 2010

Today's Agenda

- Program Status
- Defects Reporting & Program Risks
- Market Readiness
- Financials
- Appendix

254 Days to Go-Live

DAM execution begins in 9 days 0 Items Impacting Go-Live Date

Market Trials 3.0:

99.9 % of Generation Qualified

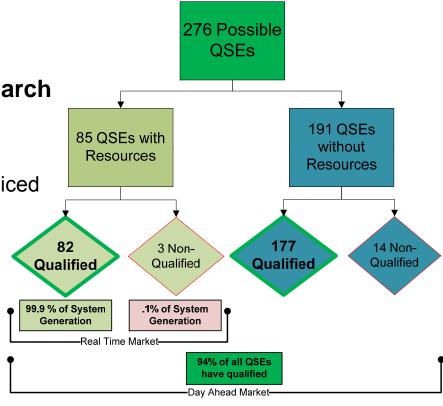
Six month LMP analysis started on March 1st

Congestion Revenue Rights (CRR)

March & April auctions completed and invoiced successfully

Outage Scheduler

- 63 of 85 QSEs have qualified
- 11 of 25 TSPs have qualified
 - Window Closes for qualification on Aug 13th
- Outage Scheduler available to QSEs and TSPs until the end of March



254 Days to Go-Live

Market Quality Testing & Operational Readiness 0 Items Impacting Go-Live Date

Market Trials 4.0: DAM/RUC

- Starting Thursday April 1st, for Operating Day Friday April 2nd
 - Core migration installed on March 19th
 - Internal O.D. on March 23rd & 24th
 - All procedures & business processes are finalized
 - · Operational training completed

Market Trials 5.0: Full Functionality

- Starting May 3rd
 - Mitigation has brought the milestone back to schedule
 - Full scope of deliverables under review

Market Readiness

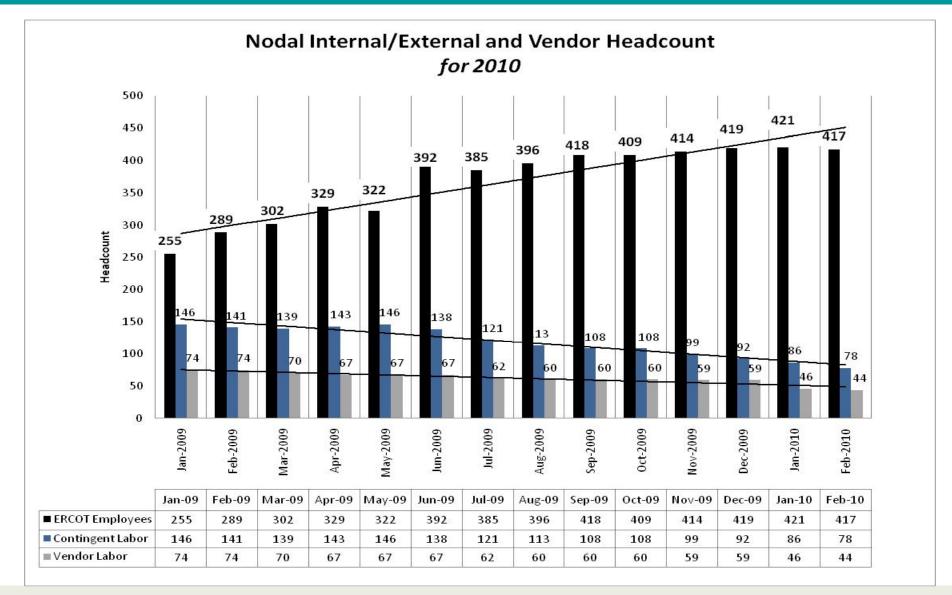
- Outreach sessions completed
- Next market readiness seminar is March 25th

Key Takeaways:

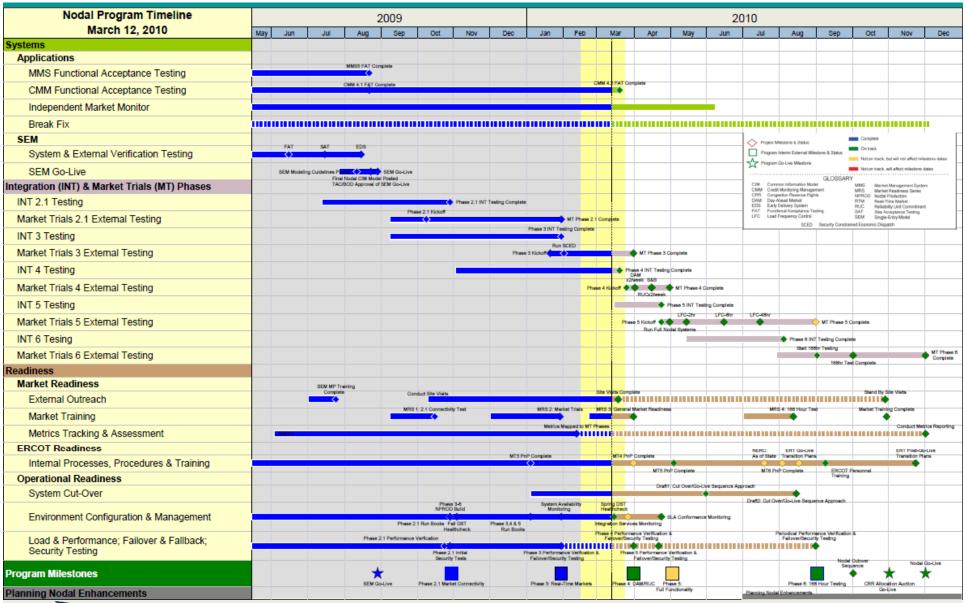
- DAM execution begins in 9 days
- Market readiness seminar on March 25th
- Continued participation in the Real Time and CRR market needed
- DRUC and settlements of RT/DAM markets start on April 19th
- Individual testing of LFC ends in April
- Market Participants need to take advantage of the market trials to test their systems and procedures for Nodal operations



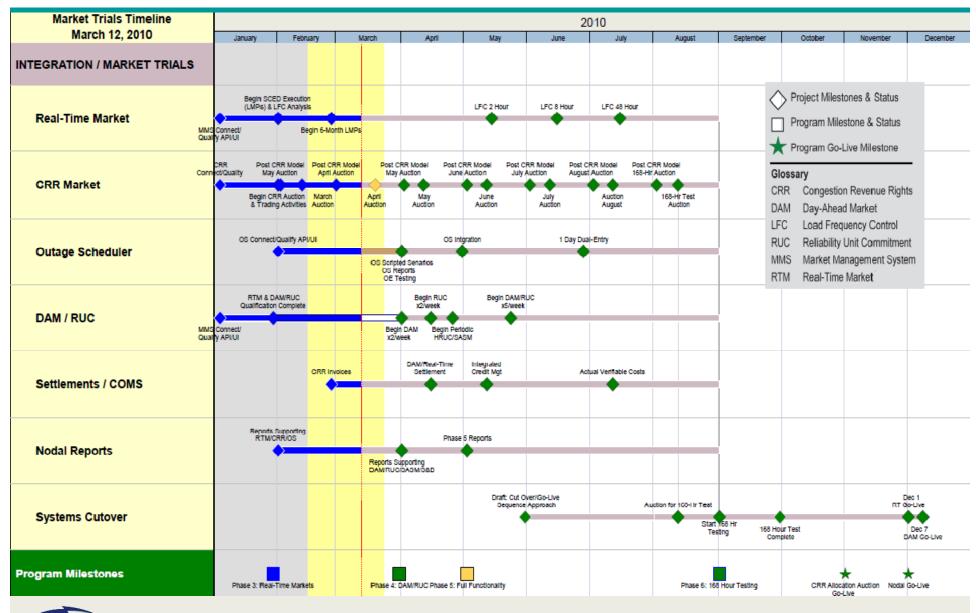
Nodal Internal/External and Vendor Headcount 2010



Integrated Nodal Timeline



2010 Market Trials Timeline



Program Milestone Schedule Mitigation

Phase 5: *Full Functionality*

Integration Testing has been mitigated back on schedule: No Impact on Go-Live

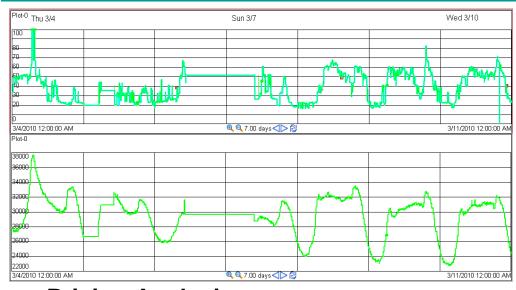
Scope

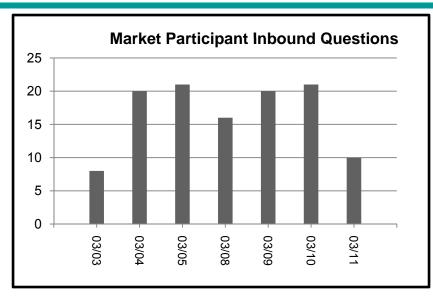
- End to end integration testing
- Begin HRUC/SASM
- Daylight Savings time change verification
- Phase 5 performance verification

Yellow Status

- Mitigation has brought the milestone back to schedule
- Full scope of milestone still under review
- Some functionality may come online after milestone

Real Time Market / LFC Update





Pricing Analysis

- The \$2,250 cap on prices has not been reached since 03/04/10
- Flat LMP/Load on Fri/Sat/Sun due to PI data recorder outage; SCED did operate continuously during this time period

Market Question topics have shifted from qualifications and participation to stability and operational inquiries

- Questions have centered on:
 - Stability of systems and access
 - · Output from submissions

Operational

Individual unit control test status continue as prep for market wide LFC tests



Environment Report: Known Issues

- ERCOT has identified an issue in SCED where invalid LMPs and basepoints are sent in the case of a failure in step 2 of SCED. We are actively working with the vendor to identify a permanent resolution to this.
- ERCOT is also evaluating a temporary resolution that will be applied in the short term once it has passed the required testing and analysis. As more information is available, ERCOT will continually update the Market on these weekly calls. Note that this issue was discovered via the Price Validation process.

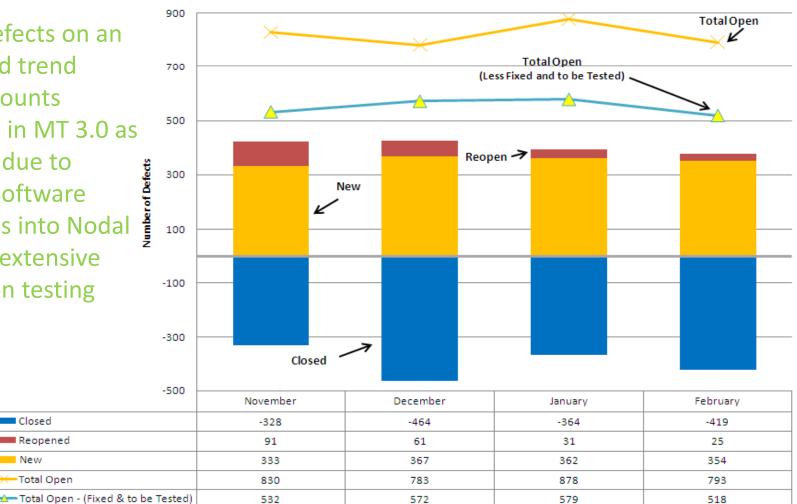
Nodal Program Risks & Issues

| Risk/Issue | Impacted Milestone | Target | Category | Probability | Severity | Status |
|--|-----------------------|--------------------|---------------------------------|-------------|----------|---|
| Inadequate Backup for ICCP Failure: Current Protocol Language does not allow ERCOT to use State Estimator results as a backup input to SCED, LFC, & NSA processes in the event of an ICCP failure from both sources of Resource Status. | Program | April/ May 2010 | Scope / Schedule / Budget | High | High | ERCOT submitting NPRR language for consideration No impact to systems anticipated based on Impact Analysis |
| 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 Load Frequency -DAM Sizing -CRR sizing -Reporting | Program | April/ May 2010 | Scope / Budget | High | Low | Phase 4 OLA definitions complete Phase 5 OLA definitions in progress NATF and NDSWG heavily involved in issue 10,000 / 10,000 submissions achieved 200,000 submissions total; ERCOT presented comparable sizing to NATF on 03/02/10 On track |
| Integration Testing - Risk Continued risk around technology delivery of business systems integration due to complexity and continuing maturing of application and data dependencies. | Program | May 2010 | Scope / Schedule / Budget | Low | Med | Phase 4 On track; planning complete, execution in progress Phase 5 final planning in progress |

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

Nodal Defects Total Open vs. Monthly Variation

- Open defects on an downward trend
- Defect counts increased in MT 3.0 as expected due to planned software migrations into Nodal iTest and extensive integration testing efforts.





Closed

New

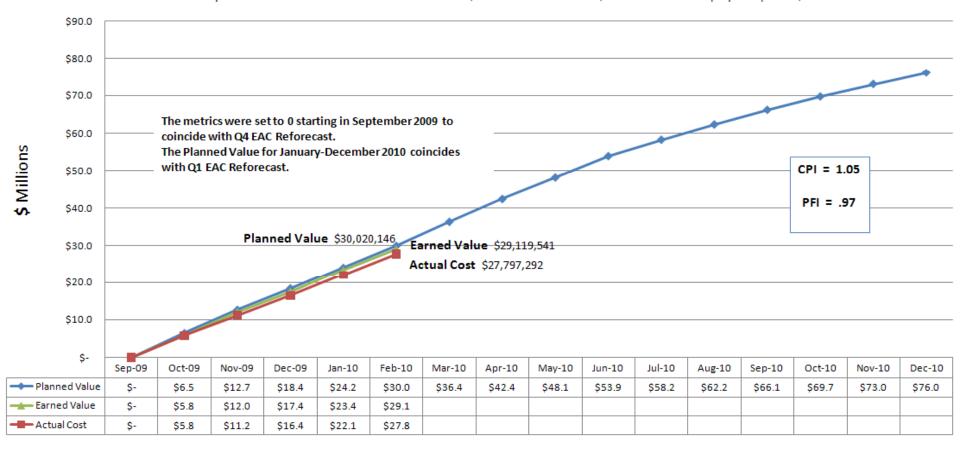
Reopened

Total Open

Earned Value for the Nodal Program

Nodal Program

Chart only uses values associated with Internal Labor Costs, External Resource Costs, Administrative & Employee Expenses, Vendor and Backfill





ERCOT / TSP activities and requirements for Go-Live

SEM Go-Live on Aug 31, 2009 introduced:

- New software (Network Model Management System)
- New business processes to maintain day-to-day equipment changes to model(TSP directly access and change model)
- Began 6 month process of validating network model to support nodal efforts
- TSPs and ERCOT staff have worked hard to be successful on new tools

Model Validation efforts Aug 31- March 31 (status as of Mar 19):

- March 31 deadline was agreed to by TSP and market (working closely with ROS)
- TSP Accountable Executive email to ERCOT confirming model validation efforts complete
- 10 companies complete representing 90% of transmission equipment
- 12 companies not yet complete are Amber, go to Red in April
- TSP Validation support workshop being offered Wednesday, March 24, 2010

Nodal Dependencies:

- Accurate network Operations Model key for network constrained Day-Ahead Market scenarios in late April, and LFC test in May
- TSP Planning staff working with ERCOT to refine model for Topology Processor export capabilities which support CRR Auction model



Nodal Parking Deck - Approved by Board of Directors

| Source Document | Title | Priority | Current Status |
|--------------------|--|----------|---------------------------|
| NPRR131 | Ancillary Service Trades with ERCOT | High | BoD Approved 1/19/2010 |
| NPRR181 | FIP Definition Revision | High | BoD Approved 1/19/2010 |
| NPRR153 | Generation Resource Fixed Quantity Block Offer | Medium | BoD Approved 1/19/2010 |
| NPRR164 | Resubmitting Ancillary Service offers in SASM | Medium | BoD Approved 1/19/2010 |
| SCR755 | ERCOT.com Website Enhancements | Medium | BoD Approved 2/16/2010 |



Nodal Parking Deck - Pending Approval

| Source Document | Title | Suggested Priority | Current Status |
|--------------------|---|-----------------------|---|
| NPRR169 | Clarify the Calculation and Posting of LMPs for the Load Zone and LMPs for each Hub | High | Tabled at BoD TAC approved 1/6/2010 |
| NPRR146 | ICCP Telemetry Information Submittals | TBD | Tabled at TAC PRS approved 2/19/2009 |
| NPRR207 | Hour Start Unit Deselection and Half Hour Start Unit RUC Clawback | High | Tabled at TAC PRS approved 2/19/2009 |
| NPRR211 | Modify RUC Capacity Short Charge to Use Final Energy Trades | TBD | Pending at WMS |
| SCR756 | Enhancements to the MarkeTrack Application | TBD | Tabled at RMS |



Market Readiness

Vikki Gates
Readiness & Transformation

Special Nodal Program Committee 22 March 2010

Participant Readiness Touch Points

| | 2010 | | | | | | |
|------------------|--|---|---|---|--|--|--|
| | March | April | May | June | | | |
| Meetings | • NATF 3/2 | • NATF 4/6 | • NATF 5/4 | • NATF 6/1 | | | |
| Training | Nodal 101 LSE 201 Basic Training Generation 101, 201 CRR – instructor-led Settlement Workshop Operations Seminar | Nodal 101 Trans 101 Generation 101, 201 CRR – instructor-led NMMS Economics of LMP Combined Cycle Workshop | Nodal 101 Trans 101 Generation 101, 201 CRR – instructor-led NMMS Economics of LMP | Nodal 101 LSE 201 Generation 101, 201 Economics of LMP Ancillary Service Workshop | | | |
| Outreach | 4 site visits Scheduled Site Visits conclude MRS #3 March 25th | Standby site visitsPhase 4 metrics launch | Standby site visitsMetrics monitoring | Repeat Retail Workshop (Dallas) – tentative Phase 5 Metrics launch | | | |
| Market trials | Weekly calls Phase 3 Execution Phase 4 Handbooks Updates to prior handbooks LFC individual QSE tests | Weekly calls Phase 4 Market Trials initiates Phase 5 Handbooks Updates to prior handbooks Credit | Weekly calls 2 hr system-wide LFC test Phase 5 Market Trials initiates | Weekly calls 8 hr system-wide LFC test Full market trials functionality | | | |



Next 60-days of Classes and Settlement Workshops

| Course | Start Date | Location |
|-------------------------------|------------|---------------------------------|
| Settlements Workshop –RUC/RTM | March 23 | Calpine (Houston) |
| ERCOT Nodal 101 | March 29 | PSEG (New Jersey) |
| Generation 201 | March 30 | ERCOT Met Center (Austin) |
| LSE 201 | April 7 | Suez Energy (Houston) |
| Generation 201 | April 20 | Calpine (Houston) |
| ERCOT Nodal 101 | April 26 | Tenaska Power Services (Dallas) |
| Congestion Revenue Rights | April 27 | Hilton Garden Inn (Dallas) |
| ERCOT Nodal 101 | May 10 | ERCOT Met Center (Austin) |
| Congestion Revenue Rights | May 11 | ERCOT Met Center (Austin) |

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

Outreach Program Overview

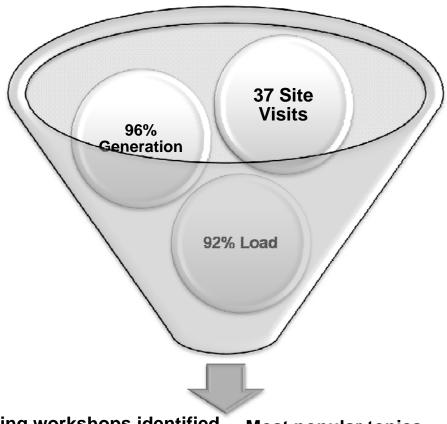
Outreach Site Visits completed as of March 18, 2010

Confirmed ☐ Completed ☑

| | Entity | Date | Entity | Date |
|--------------|---------------------------------|--------|--|-----------------|
| \checkmark | LOWER COLORADO RIVER AUTHORITY | 9-Oct | ✓ NRG TEXAS POWER | 15-Dec |
| \checkmark | CALPINE CORP | 14-Oct | ✓ DIRECT ENERGY LP | 5-Jan |
| ✓ | AUSTIN ENERGY | 20-Oct | ✓ CPS ENERGY | 6-Jan |
| \checkmark | CITY OF GARLAND | 21-Oct | ▲ BTU (Bryan Texas Utilities) SERVICES | 13-Jan |
| ✓ | GDF SUEZ ENERGY MARKETING | 29-Oct | | 14-Jan |
| ✓ | ANP FUNDING | 3-Nov | _ | 19-Jan |
| \checkmark | LUMINANT ENERGY | 5-Nov | _ | 20-Jan |
| \checkmark | INVENERGY WIND DEVELOPMENT | 10-Nov | | 26-Jan |
| \checkmark | EXELON | 11-Nov | | 27-Jan 9-Feb |
| ✓ | AMERICAN ELECTRIC POWER SERVICE | 12-Nov | | 16-Feb |
| ✓ | CONSTELLATION ENERGY | 17-Nov | | 17-Feb |
| √ | PSEG ENERGY RESOURCES | 18-Nov | ☑ TRI-EAGLE ENERGY | 18-Feb |
| ✓ | J ARON | 19-Nov | ☑ NEXTEra 2 | 26-Feb |
| ✓ | FULCRUM POWER | 2-Dec | ✓ XTEND ENERGY LP 1 | 10-Mar |
| V | EAGLE ENERGY PARTNERS I LP | 3-Dec | | 10-Mar |
| V | | 9-Dec | | 11-Mar |
| ✓ | BP ENERGY COMPANY | 10-Dec | | 16-Mar |
| ¥ | DE ENERGY CONTRAINS | าก-ทศต | ☑ Westar 1 | 18-Mar |



Outreach Results



5 Additional training workshops identified

- Wind
- Credit
- Retail
- Combined Cycle
- Ancillary Services

Most popular topics

- Day Ahead Market
- Real-Time Operations
- Congestion Revenue Rights

Active MP Metrics

| Metric Name | Current Score | Applies to | Weight | Green % | Yellow % | Red % | Not Scored % | Primary Criteria | Notes |
|--|------------------|------------|------------------------------|---------|----------|-------|--------------|---|---|
| MP3 Market Submissions | Green | QSERs | Generation Ratio Share | 99.0% | 1.0% | 0.0% | 0.0% | Successful submission of RT | 83/85 QSERS Qualified (includes QSEs with Load Resources). |
| Connectivity Qualification | Amber | QSEs | Even weighting | 92.6% | 2.7% | 1.1% | 3.7% | and DAM transactions | 175/189 QSEs qualified. Below 95% threshold for overall GREEN. |
| | Green | QSERs | Generation Ratio Share | 99.9% | 0.1% | 0.0% | 0.0% | Expected State Estimator telemetry submitted. | 79/80 QSERs completed. 3501/3502 SE points provided (99.6%). |
| MP6 Telemetry Compliance with Nodal Protocols 3.10.7.5 | Green | QSERs | Generation Ratio Share | 99.9% | 0.0% | 0.1% | 0.0% | Expected SCED telemetry submitted. | 79/80 QSERs completed. 7621/7629 SCED points provided (99.1%). |
| | Green/White only | TSPs | Ownership Ratio Share | 0.3% | 0.0% | 0.0% | 99.7% | Expected TSP telemetry per ICCP Handbook submitted | 1/17 TSPs completed, all other TSPs are in review by ERCOT. 12603/12941 TSP CB and LD points provided (93.8%). |

Active MP Metrics Continued

| Metric Name | Current Score | Applies to | Weight | Green % | Yellow % | Red % | Not Scored % | Primary Criteria | Notes |
|---|------------------|------------|---|---------|----------|-------|--------------|--|---|
| MP11 Resource Registration | Amber | REs | Registered MW Capacity Ratio Share | 82.3% | 16.1% | 1.6% | 0.0% | Decision Making Authority form submitted, and GENMAP validated | 147/157 Resources completed. |
| MP14-C TSP Model Validation | Amber | TSPs | Ownership Ratio Share | 66.0% | 34.0% | 0.0% | 0.0% | Network Model data validated by TSP | 8/22 TSPs have submitted model validation e-mail to ERCOT. |
| MP15-A Real-time Market Daily Participation | Green | QSERs | Generation Ratio Share | 99.0% | 1.0% | 0.0% | 0.0% | Weekly average of daily SCED submissions | 77/80 QSERs above 95% weekly average for SCED submissions. |
| MP15-B CRR Connectivity Qualification | Red | CRRAHs | Even weighting | 79.4% | 3.8% | 11.5% | 5.3% | Successful submission CRR transactions | 63/78 CRRAHs qualified. Greater than 5% overall RED. |
| MP20 MP ability to submit Outages - Connectivity Test | Green/White only | QSERs | Generation Ratio Share | 87% | 0.0% | 0.0% | 13% | Successful submission of OS transactions. | 52/80 QSERS qualified. |
| | Green/White only | TSPs | Ownership Ratio Share | 50% | 0% | 0% | 50% | AMBER/RED scores light up 4/7/2010 after OS window closes. | 9/25 TSPs qualified. |

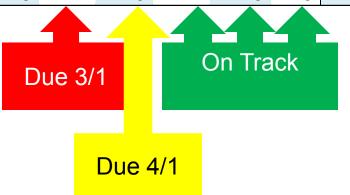
Active ERCOT Metrics

| Metric Name | Current Score | Applies to | Percentage (if applicable) | Primary Criteria | Notes |
|--------------------------------------|------------------------|------------|----------------------------|---|---|
| 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 | Red | ERCOT | N/A | Procedures developed 1 month prior an exercised in the appropriate Market Trials Phase | 153/158 procedures developed for Market Trials Phase 4. Deadline for completion was 3/1/2010. RED = More than 1 procedure not developed 1 month prior to applicable Market Trials Phase. |
| MO4 Verify SCED Execution Quality | Red* *as of 3/24/10 | ERCOT | N/A | All of the successful SCED executions passed the post-execution price validations for the given reporting period. | 03/10/10 validation run by the Price Validation Tool produced error flags for the Dispatch Consistency vs. LDL. 58 units were dispatched to non-zero Base Points which caused 58 dispatch inconsistency error messages. |
| MO5 Generate 6 Months of LMPs | Red | ERCOT | 47% | Greater than 95% of the SCED executions produced and posted LMPs for the given reporting period. | From 3/1 to 3/8, 1,245 SCED executions completed with no LMPs posted to the MIS. Posting errors were caused as a result of EIP configuration error to global application parameter. |

Detail of Procedure Metric

| As of | Market Trials | | | | | 168 | go- | Grand |
|---------|------------------------|-----|-----|-----|-----|------|------|-------|
| 3/17/10 | Phase | MT3 | MT4 | MT5 | TBD | Hour | live | Total |
| | Total | 32 | 158 | 111 | 7 | 14 | 149 | 471 |
| | Total Remaining | | | | | | | |
| | to Complete by | | | | | | | |
| | Phase | 0 | 2 | 16 | 1 | 6 | 20 | 45 |

- RED = More than 1
 procedure not
 developed 1 month
 prior to applicable
 Market Trials Phase.
- Once complete, procedures are scheduled to be exercised in the applicable phase
- Quality review ongoing





Monthly Financial Review

Don Jefferis Interim Director - Nodal Financial Management Office

> Special Nodal Program Committee 22 March 2010

Financial Review - February 2010 Performance Approved Forecast vs. Actual

| | | | | | Forecast |
|------|----------------------------------|----------|-------------|---------------|-----------------------|
| | | | Actual | Variance | Cumulative |
| Line | Cost Summary | Forecast | (Unaudited) | Fav./(Unfav.) | Variance ¹ |
| 1 | Internal Labor Costs | \$2.4 | \$2.4 | \$0.0 | (\$0.2) |
| 2 | Backfill Labor Costs | 0.2 | 0.1 | 0.1 | 0.1 |
| 3 | External Resource Costs | 3.3 | 3.0 | 0.3 | 0.4 |
| 4 | Software & Software Maintenance | 0.3 | 0.4 | (0.1) | 0.0 |
| 5 | Hardware & Hardware Maintenance | 0.3 | 0.1 | 0.2 | 0.5 |
| 6 | Other | 0.0 | 0.0 | 0.0 | 0.1 |
| 7 | CTO Contingency Fund | 2.0 | 2.0 | 0.0 | 0.0 |
| 8 | Sub-total Direct Project Costs | \$8.5 | \$8.0 | \$0.5 | \$0.9 |
| 9 | Board Discretionary Fund | \$0.0 | \$0.0 | \$0.0 | \$0.0 |
| 10 | Allocations | \$0.3 | \$0.3 | \$0.0 | \$0.1 |
| 11 | Finance Charges | 1.0 | 1.0 | 0.0 | 0.1 |
| 12 | Sub-total Indirect Project Costs | \$1.3 | \$1.3 | \$0.0 | \$0.2 |
| 13 | | | | | |
| 14 | Total | \$9.8 | \$9.3 | \$0.5 | \$1.1 |

Amounts in millions

Note 1: Pending contingency management disposition



Financial Review - LTD Performance through February 2010 Approved Forecast vs. Actual

| | | | Actual | Variance | Forecast |
|------|----------------------------------|-----------------------|-------------|---------------|-----------|
| Line | Cost Summary | Forecast ¹ | (Unaudited) | Fav./(Unfav.) | Remaining |
| 1 | Internal Labor Costs | \$60.9 | \$61.1 | (\$0.2) | \$22.8 |
| 2 | Backfill Labor Costs | 5.6 | 5.5 | 0.1 | 1.6 |
| 3 | External Resource Costs | 261.3 | 260.9 | 0.4 | 21.2 |
| 4 | Software & Software Maintenance | 26.2 | 26.2 | 0.0 | 3.0 |
| 5 | Hardware & Hardware Maintenance | 52.4 | 51.9 | 0.5 | 2.9 |
| 6 | Other | 2.1 | 2.0 | 0.1 | 0.4 |
| 7 | CTO Contingency Fund | 2.0 | 2.0 | 0.0 | 8.8 |
| 8 | Sales Tax Refund | (\$7.3) | (\$7.3) | 0.0 | 0.0 |
| 9 | Sub-total Direct Project Costs | \$403.2 | \$402.3 | \$0.9 | \$60.7 |
| 10 | Board Discretionary Fund | \$0.0 | \$0.0 | \$0.0 | \$105.5 |
| 11 | Allocations | \$20.7 | \$20.6 | \$0.1 | \$2.3 |
| 12 | Finance Charges | 28.0 | 27.9 | 0.1 | 23.4 |
| 13 | Sub-total Indirect Project Costs | \$48.7 | \$48.5 | \$0.2 | \$25.7 |
| 14 | | | | | |
| 15 | Total | \$451.9 | \$450.8 | \$1.1 | \$191.9 |

Amounts in millions

22 March 2010

Note 1: Forecast consists of actuals through December 2009 and re-forecast January and February



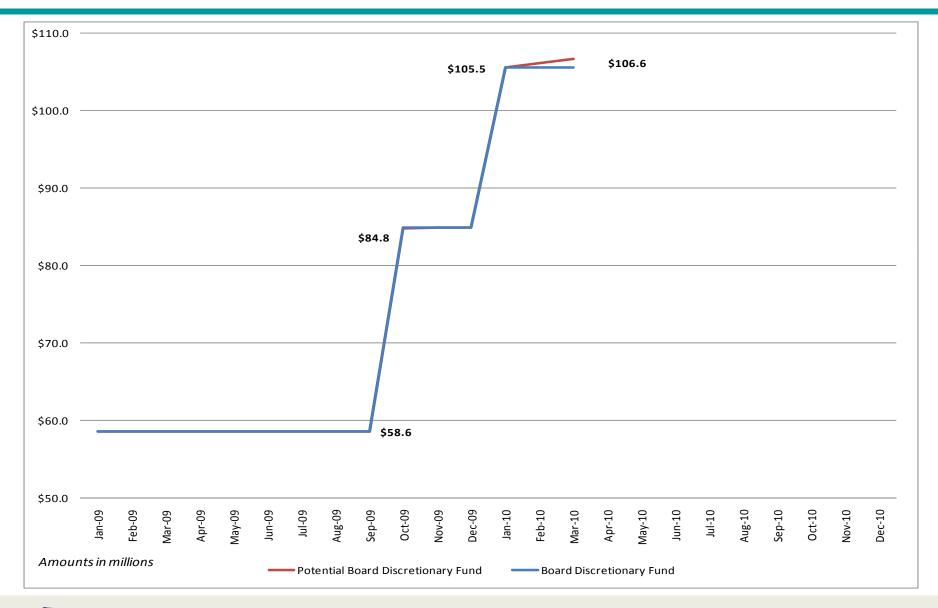
Financial Review - CTO Contingency Fund

| | Risk items for Inclusion in CTO Contingency Fund | | (Amounts in millions) | | | | |
|------|--|--|-----------------------|----------------|------------------|----------------------|------------------------------|
| Line | Major Activities/Adjustments | Likely to Spend ¹ (H/L) | Allocated | Feb. Spend | Spend to Date | Remaining Balance | Initiated NCRs to date |
| 1. | •External Labor Support for Delivery Assurance and Market Experts for Operational Support & Guidelines (\$2.4M) & Board directive for Organization Study (\$0.5M) | Н | \$ 2.9 | (\$ 0.2) | (\$ 0.2) | \$ 2.7 | \$ 0.5 |
| 2. | Infrastructure hardware upgrades and application patching | L | 2.0 | - | - | 2.0 | 0.2 |
| 3. | •Software Licenses and Maintenance Fees | Н | 1.9 | (1.8) | (1.8) | 0.1 | 1.8 |
| 4. | •Current in-flight change requests within the NCR pipeline | Н | 1.6 | - | - | 1.6 | 0.7 |
| 5. | Market Collateralization for Credit system changes and NPRRs | L | 1.0 | - | - | 1.0 | - |
| 6. | •Business Process Monitoring scoping and requirements gathering based on other ISO implementations, Internal and External Labor support for problem analysis, monitoring configurations, tools and utilities | Н | 1.0 | - | - | 1.0 | 0.2 |
| 7. | Network Modeling changes for loading and publishing to support NPRR | L | 0.2 | - | - | 0.2 | - |
| 8. | •IMM Development Resources from ABB | L | 0.2 | - | - | 0.2 | - |
| | Total | | <u>\$ 10.8</u> | <u>(\$2.0)</u> | <u>(\$2.0)</u> | <u>\$ 8.8</u> | <u>\$ 3.5</u> |

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



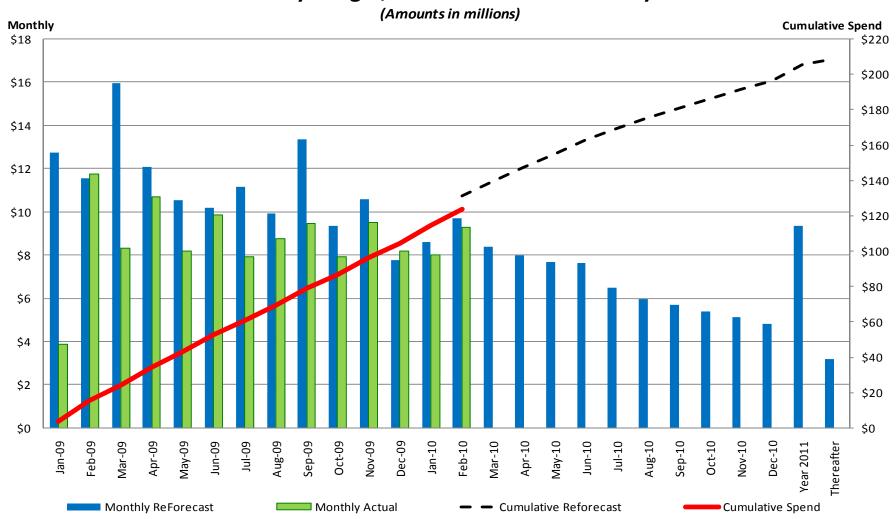
Financial Review - Board Discretionary Fund





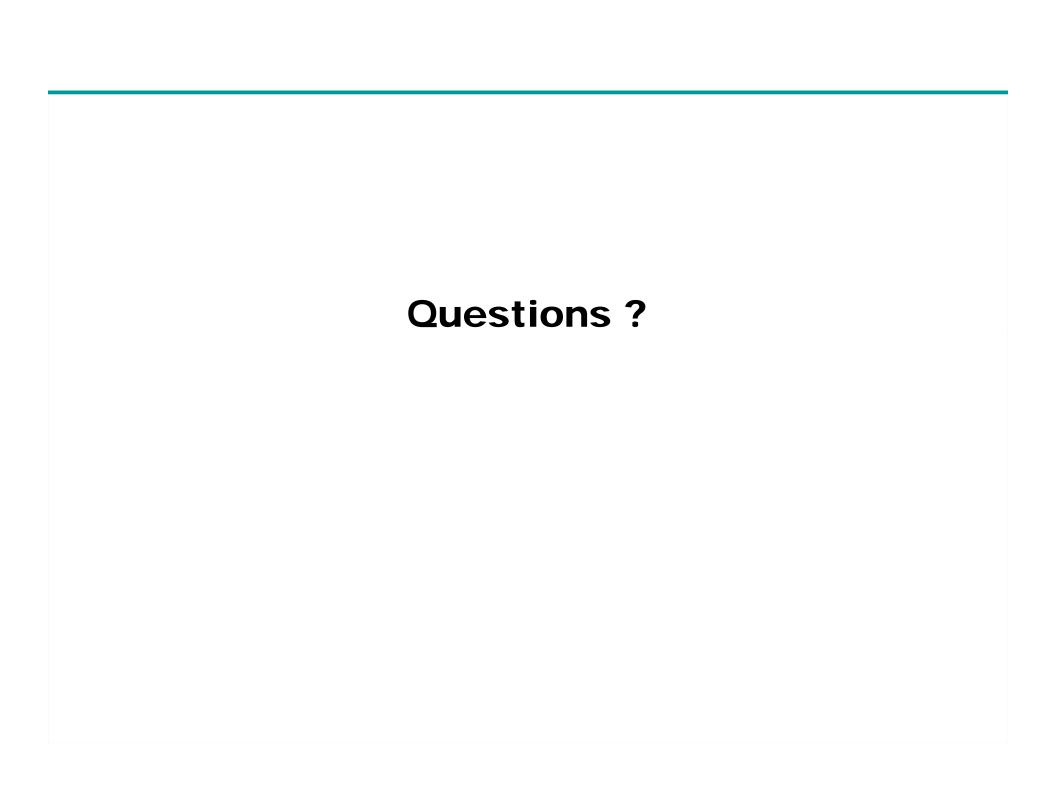
Financial Review - Program Cost Management 2009 and 2010 Forecast

Monthly Budget, Forecast and Actual Analysis



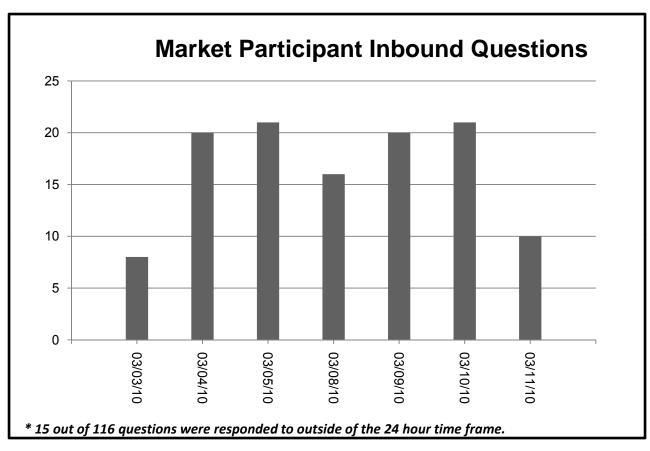
Note: Year 2011 and thereafter are finance charges







Support Metrics



Example Questions:

- Question: Which day's FIP/FOP is used for day-ahead market TPO validation? For example, for tomorrow the Platt's daily index will not be posted until later on today after the DAM is closed. Is ERCOT using today's FIP/FOP for tomorrow's offer validation?
- Question: When will Load Serving Entities (LSEs) be given access to enter MIS to see Market Trial Postings that we will be
 able to see when the Market goes live. We are especially interested in tracking the Market Trial LMP's and Settlement Point
 LMP's?

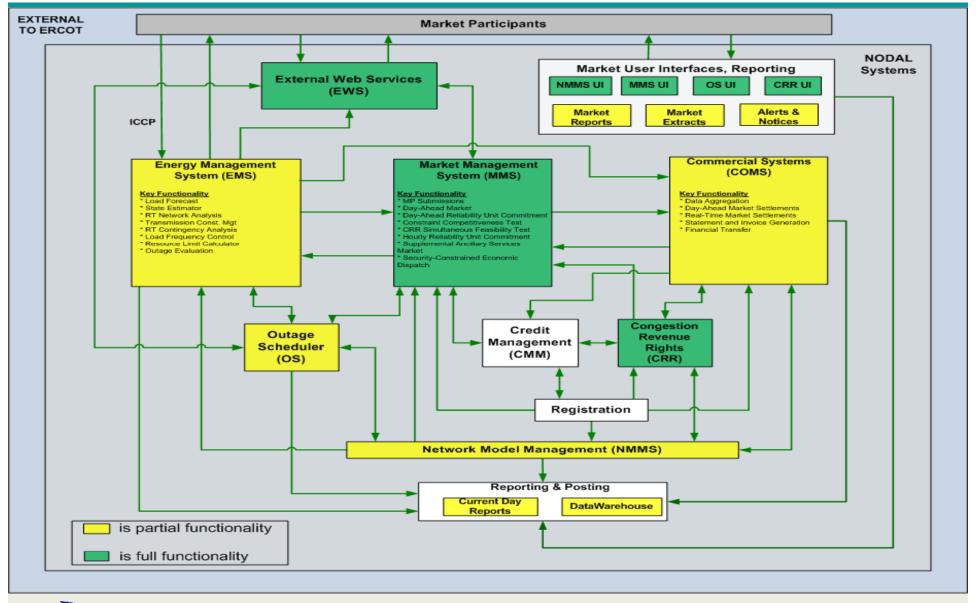


Market Trials Phase 4 - DAM: Schedule/Key Dates

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 |
|-----------------------|-----------------|-----------------|-----------------------|-----------------|-----------------------|
| | | 4/6/2010 & | 4/13/2010 & | 4/20/2010 & | 4/27/2010 & |
| | 4/1/2010 | 4/8/2010 | 4/15/2010 | 4/22/2010 | 4/29/2010 |
| DAM/RUC/SASM | | | | | |
| | Connectivity / | AS co- | Network constrained | DAM + DRUC | DAM + DRUC + |
| Objective | Execution | optimization | solution | DAM + DRUC | HRUC + SASM |
| Network | | | | | |
| Constraints | None | None | Included | Included | Included |
| Self-Arranged AS | | | | | |
| Requested | 100% | 50% | 50% | Actual | Actual |
| Load Bid MW | 80/120% | 80/120% | 80/120% | 80/120% | 80/120% |
| Requested | forecasted load | forecasted load | forecasted load | forecasted load | forecasted load |
| | Up to 5 | Up to 5 | | | |
| | transactions | transactions | Up to 10 | Up to 10 | |
| | totaling 50 | totaling 50 | transactions totaling | transactions/ | Up to 10 |
| Virtual Bids / Offers | MW/QSE/hr | MW/QSE/hr | 100 MW/QSE/hr | QSE/hr | transactions/QSE/hr |
| | | | | | Up to 5 bids totaling |
| | Up to 5 bids | Up to 5 bids | | Up to 5 bids | 50 MW/QSE/hr (unless |
| | totaling | totaling | | totaling | the bid represents |
| PTP Obligations | 50 MW/QSE/hr | 50 MW/QSE/hr | None | 50 MW/QSE/hr | QSE's load) |
| | Allocated CRRs | Allocated CRRs | | Allocated CRRs | |
| NOIE CRR Offers | only | only | None | only | Allocated CRRs only |
| | | | DRUC after each | DRUC after each | |
| DRUC | None | None | DAM | DAM | DRUC after each DAM |
| HRUC | None | None | None | None | Limited |
| SASM | None | None | None | None | Yes |



Nodal Systems Blueprint - Market Trials - Phase 4 - April 1st



Nodal Program Risks & Issues: Definitions

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

Category

- Scope: Will require a scope change
- Schedule: Will require a schedule change
- Budget: Will require a budget change

Probability

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

Severity

- High: Milestone impact, or budget impact >\$250,000
- Medium: Milestone impact but expected to be mitigated, or budget impact between \$0 - \$250,000
- Low: 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

External Audit Status Summary

| 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 | 3 in progress; 14 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. | Additional data center space planned as part of the Met Center disposition project (PR-80001). Those data centers should be online in mid-2011. Plans are under development to provide capacity prior to those new data centers becoming available. Nodal Go-Live has sufficient space with the expansion of TCC1. | R. Morgan | David Forfia | COMPLETE - TCC1 expansion ensured sufficient space for Go-Live. |

Audit Points to Address from Utilicast Report 10-1

| ID Short Description | Recommendation | Action Plan Status | Resp. Dir. | Resp. Mgr. | Target Date |
|---|---|--|---------------|---------------|--|
| UTI-10 End-to-End - 06C Business Readiness Activities | Ensure Nodal processes and procedures are completed so they can be exercised during End-to-End testing. | Planning is complete for ensuring that all nodal processes and procedures that will need to be exercised during end-to-end testing are scheduled for completion prior to the execution of those processes and procedures per the end-to-end schedule. The schedule below reflects the Nodal test schedule for 4 audit points: 1. MT Phase 3 – SCED, OS Submissions, CRR Auctions due 12/15/09 • 29 procedures (written) • 18 processes (written) 2. MT Phase 4 & 4.1 - DAM, RUC, OS, CRR Invoices, Settlements and Billing • New end date 3/31/10 • 153 procedures (written); 5 outstanding • 30 processes (written); 9 outstanding 3. MT Phase 5 & 6 – Remaining production procedures due 5/1/10 4. Phase 6 – Integrated final code due 6/1/10 | V. Gates | J. Adams | 06/01/10 Complete 03/31/10 05/1/10 06/1/10 |

