Date: February 10, 2009
To: Board of Directors
From: Trip Doggett, Senior Vice President and Chief Operating Officer
Subject: Texas Nodal Market Implementation Program Budget and Schedule

Issue for the ERCOT Board of Directors

ERCOT Board of Directors Meeting Date: February 17, 2009
Agenda Item No.: 8c

Issues:
With regard to the Texas Nodal Market Implementation Program (Nodal Program):

- Whether to approve a budget proposed by ERCOT Staff and authorize expenditures to complete the Nodal Program up to a total amount not-to-exceed $658.7 million, consisting of the following:
  - Direct and indirect costs of $507.5 million;
  - Contingency funding of $58.6 million; and
  - Financing costs as determined based on the option selected by the Board at its meeting on February 17, 2009. For purposes of the not-to-exceed amount above, an interest cost estimate of $92.6 million was assumed. This amount includes interest for both the period during implementation and after the go-live date consistent with Option 2a as identified in materials included with Agenda Item 11a for the Board meeting on February 17, 2009 (this is not an endorsement of Option 2a; Option 2a is simply the assumption that was included in the January 2009 Board materials);
- Whether to grant ERCOT officers the delegated authority to control all expense categories within this Nodal Program budget request with the exception of contingency funding which shall remain exclusively within the Board's authority; and
- Whether to approve a schedule proposed by ERCOT Staff and authorize completion of the Nodal Program by a date no later than December 31, 2010.

Pursuant to Agenda Item 11a for the Board meeting on February 17, 2009, ERCOT Staff will request the Board's authorization for ERCOT Staff to prepare a Nodal Surcharge filing with the Public Utility Commission of Texas (Commission), consistent with the Board's authorization of the Nodal Program budget and schedule, to allow ERCOT to recover the maximum amount of costs incurred as a result of the Nodal Program.

Background/History:
Nodal Program Budget and Schedule
The Commission instructed ERCOT to modify its existing wholesale market structure to implement a nodal design in place of the existing zonal market design. In 2006, ERCOT began work on the Nodal Program once the Nodal Protocols were approved. The Board of Directors approved a budget for the Nodal Program of $319.5 million to cover development coinciding with the Commission-mandated go-live date of January 1, 2009. With the anticipated delay of go-live beyond January 1, 2009, the program was expected to exceed the approved budget in or around December 2008. On September 11, 2008, the Commission engaged an independent, third-party

consultant to perform a Cost-Benefit Analysis (CBA) of the Commission's original decision to move to a nodal market and authorized ERCOT to continue work on the Nodal Program. After due consideration of alternatives, the Board approved an additional $44 million on the Nodal Program through February 28, 2009, in addition to the approved $319.5 million budget, increasing the Board-approved budget for the Nodal Program to a maximum not-to-exceed amount of $363.5 million. This increased budget authority allowed ERCOT to continue operating the Nodal Program while the Commission completed its review of its requested, updated CBA; however, the Board directed ERCOT not to spend any funds on the Nodal Program without further authorization from the Board. At that time, it also requested that ERCOT Staff prepare a final budget and schedule for the Nodal Program. Since the budget and schedule are intertwined, ERCOT Staff presented a preliminary Nodal Program budget and a preliminary Nodal Program Integrated Project Schedule at the Board's Special Meeting on January 21, 2009. The final versions of these two documents are attached hereto as *Exhibits A* and *B*. They are unchanged from the January 2009 versions, except that financing-cost estimates in *Exhibit A* have been reduced by $1.3 million.

By way of background, the Nodal budget has gone through several iterations. The first 2006 figure of $125 million was a preliminary budget to begin the program and to set a basis for establishing an initial regulatory Nodal Surcharge recovery amount. This budget was established before the completion of the Nodal protocols and development of business requirements. A second Nodal budget was established at $267 million based on the first set of Nodal protocols and completion of the first set of business requirements. The Nodal budget was increased to $319.5 million to account for new Protocols (baseline 1 and 2) and to cover other new requirements of the program. Finally, the most recent interim Nodal budget was approved to allow the Nodal Program to continue until February 28, 2009, while the Commission received the updated CBA and the ERCOT Staff prepared a final Nodal Program budget and schedule. In January 2009, Utilicast, LLC, an independent third-party consultant engaged to review the Nodal Program budget and schedule, provided its "Nodal Program Oversight Report 8 – New Integrated Schedule and Budget Assessment," attached hereto as *Exhibit C*.

In addition, with regard to the Nodal go-live schedule, the Commission issued the Order in Docket No. 31540, filed on April 5, 2006, requiring ERCOT to implement the Nodal Program by January 1, 2009. In May 2008, ERCOT informed the Board that ERCOT would not be in a position to complete the program requirements by the go-live deadline of January 1, 2009, due to several factors. These factors include more complexity than originally anticipated, key vendor software delays, higher data volumes than initially anticipated resulting in more hardware implementations, increased testing needs to resolve defects and new protocols to resolve market defects. Since May 2008, ERCOT performed a review and restructuring of the Nodal program and built an integrated program schedule for the remaining work. In November 2008, the proposed Nodal Program Integrated Project Schedule identified a new go-live date of December 31, 2010.

With regard to the current request for approval, the Nodal Program budget of a total not-to-exceed amount of $658.7 million is based on the forecasted expenditures required to complete the tasks in the proposed Nodal Program Integrated Program Schedule and launch the Nodal market by December 31, 2010 and on financing the recovery of approved Nodal Program costs consistent with Option 2a as identified in materials included with Agenda Item 11a for the Board meeting on

February 17, 2009.

Delegation of Authority

ERCOT Staff respectfully requests that the Board delegate authority to ERCOT officers to control all categories of expense within this request with the exception of the contingency funding. Based on the Board's recent comments with regard to contingency funding noted in the Nodal Program budget, this request would expressly and exclusively reserve the Board's authority to grant authorization for use of any such contingency funding.

Key Factors Influencing Issue:

Based on the Board's comments at its Special Meeting on January 21, 2009, ERCOT Staff has taken the financial data contained in the preliminary Nodal Program budget (presented on January 21, 2009, and revised per the discussion above) in *Exhibit A* and provided that same data, detailing expenditure type, in following alternative presentation formats of:

1) Budget Costs through the proposed Go-Live date of December 31, 2010;
2) Nodal Surcharge Cost Recovery, which estimates the amount to be recovered through the Nodal surcharge and which would be the general method of calculation for any regulatory filing with the Commission; and
3) Financial Statement Presentation, with the separation of Capital Costs versus Operating Costs.

Schedule of Alternative Perspectives of Nodal Program Costs

	Budget Cost Through Go-Live (1)	Nodal Surcharge Cost Recovery (1)(2)	Financial Statement Presentation Estimated Cost Categorization (3)	
			Capital Cost	Operating Cost
External resource cost	292,559,312	292,559,312	275,926,964	16,632,348
Internal labor cost	86,140,621	86,140,621	55,462,199	30,678,422
Hardware and hardware maintenance cost	54,417,538	54,417,538	50,068,645	4,348,893
Software and software maintenance cost	37,131,338	37,131,338	34,163,909	2,967,429
Administrative and employee expense	3,078,690	3,078,690	294,399	2,784,291
Subtotal - Direct cost	473,327,499	473,327,499	415,916,115	57,411,384
Indirect support cost allocation	17,803,472	17,803,472	15,644,033	2,159,439
Backfill labor cost allocation	8,479,263	8,479,263	7,450,786	1,028,477
Facilities cost allocation	7,856,531	7,856,531	6,903,588	952,943
Subtotal - Indirect cost	34,139,266	34,139,266	29,998,407	4,140,859
Subtotal - Direct and Indirect cost	507,466,765	507,466,765	445,914,522	61,552,243
Plus: Contingency funding	58,627,636	58,627,636	51,516,505	7,111,131
Plus: Financing cost during implementation	49,300,000	49,300,000	42,219,782	7,080,218
Plus: Financing cost after go-live	na	43,300,000	-	43,300,000
Subtotal	615,394,401	658,694,401	539,650,809	119,043,592
Less: Zonal / Nodal interdependent projects	na	(39,720,226)	(34,902,435)	(4,817,791)
Total	615,394,401	618,974,175	504,748,374	114,225,801

Notes:
(1) Schedule based on the Nodal Program budget presented to the ERCOT Board of Directors on January 21, 2009 and on current order directing method of cost recovery.
(2) The subtotal $658,694,401 is lower than the $660,000,000 figure presented to the Board in January 2009 as a result of a $1,305,599 reduction in assumed financing cost.
(3) Categorization of Nodal Program cost to capital cost and operating cost classification is estimated based on average categorization recorded through December 31, 2008. Actual categorization of Nodal Program cost incurred in 2009 and 2010 may be significantly different than shown in the schedule above because cost categorization is based on evaluation of accounting characteristics of individual invoices. The defining characteristics of future invoices are not known with certainty today.

Copy of Accounting Basics_20090210c Nodal Summary Page 1 of 1

Alternatives:

1. Approve the requests made by ERCOT Staff as follows:
   - Approve the budget proposed by ERCOT Staff and authorize expenditures to complete the Nodal Program up to a total amount not-to-exceed $658.7 million, consisting of the

following:

- Direct and indirect costs of $507.5 million;
- Contingency funding of $58.6 million; and
- Financing costs as determined based on the option selected by the Board at its meeting on February 17, 2009. For purposes of the not-to-exceed amount above, an interest cost estimate of $92.6 million was assumed. This amount includes interest for both the period during implementation and after the go-live date consistent with Option 2a as identified in materials included with Agenda Item 11a of the Board meeting on February 17, 2009 (this is not an endorsement of Option 2a; Option 2a is simply the assumption that was included in the January 2009 Board materials);

- Grant ERCOT officers the delegated authority to control all expense categories within this Nodal Program budget request with the exception of contingency funding which shall remain exclusively within the Board's authority; and
- Approve a schedule proposed by ERCOT Staff and authorize completion of the Nodal Program by a date no later than December 31, 2010.

2. Request a modification of this request. This option will likely increase the risk associated with completion of the Nodal Program and could potentially cause a significant time delay. This option may not be consistent with instructions given to ERCOT Staff by the Chairman and Commissioners of the Public Utility Commission of Texas.
3. Deny this request in its entirety. This option will halt work beyond February 28, 2009, on the Nodal Program; and absent any authorization to move forward, the Nodal Program will not be completed. This option may not be consistent with instructions given to ERCOT Staff by the Chairman and Commissioners of the Public Utility Commission of Texas.

Conclusion/Recommendation:

ERCOT respectfully requests the following:

- Approval of the budget proposed by ERCOT Staff and authorize expenditures to complete the Nodal Program up to a total amount not-to-exceed $658.7 million, consisting of the following:
  - Direct and indirect costs of $507.5 million;
  - Contingency funding of $58.6 million; and
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- The granting of delegated authority to ERCOT officers to control all expense categories within this Nodal Program budget request with the exception of contingency funding which shall remain exclusively within the Board's authority; and
- Approval of a schedule proposed by ERCOT Staff and authorization of completion of the Nodal Program by a date no later than December 31, 2010.

ELECTRIC RELIABILITY COUNCIL OF TEXAS, INC.
BOARD OF DIRECTORS RESOLUTION

WHEREAS, the Board of Directors (Board) of Electric Reliability Council of Texas, Inc. (ERCOT) previously authorized a maximum not-to-exceed budget amount of $363.5 million for the Texas Nodal Market Implementation Program (Nodal Program) through February 28, 2009, and the Board directed ERCOT not to spend any funds on the Nodal Program without further authorization from the Board after February 28, 2009;

WHEREAS, the Board previously acknowledged that the Nodal Program would not be complete as originally expected by January 1, 2009, and the Board previously directed ERCOT to prepare a final budget and schedule for the Nodal Program after the Public Utility Commission of Texas (Commission) completed its review of its requested Cost-Benefit Analysis (CBA);

WHEREAS, the Commission has received the findings of the CBA; the Board has recently received an oversight report from Utilicast, LLC, an independent third-party consultant engaged to review the Nodal Program budget and schedule; and ERCOT Staff has presented its preliminary Nodal Program budget and proposed Nodal Program Integrated Project Schedule at the Special Board meeting on January 21, 2009;

WHEREAS, after due consideration of the various alternatives, the Board deems it desirable and in the best interest of ERCOT to accept ERCOT Staff's recommendations with regard to the Nodal Program budget and schedule.

THEREFORE, IT IS HEREBY RESOLVED, that the Board hereby does the following:

- Approves the budget proposed by ERCOT Staff and authorize expenditures to complete the Nodal Program up to a total amount not-to-exceed $658.7 million, consisting of the following:
  - Direct and indirect costs of $507.5 million;
  - Contingency funding of $58.6 million; and
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- Grants ERCOT officers the delegated authority to control all expense categories within this Nodal Program budget request with the exception of contingency funding which shall remain exclusively within the Board's authority; and

- Approves a schedule proposed by ERCOT Staff and authorizes completion of the Nodal Program by a date no later than December 31, 2010.

ERCOT

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ERCOT

CORPORATE SECRETARY'S CERTIFICATE

I, Michael G. Grable, Corporate Secretary of ERCOT, do hereby certify that, at the February 17, 2009 ERCOT Board Meeting, the ERCOT Board of Directors passed a motion approving the above Resolution by a vote of twelve in favor, three opposed (Messrs. Dalton, Ballard and Fehrenbach) and no abstentions.

IN WITNESS WHEREOF, I have hereunto set my hand this 25th day of February, 2009.

Michael G. Grable
Corporate Secretary

Exhibit A

Nodal Program
Revised Preliminary Budget

Nodal PMO

ERCOT Board of Directors

February 17, 2009

Nodal Program Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 35,858,381	$ 86,140,621	$ 50,282,240
2	External Resource Costs	175,093,797	292,559,312	117,465,515
3	Administrative & Employee Expenses	7,614,628	3,078,690	(4,535,938)
4	Software & Software Maintenance	17,053,096	37,131,338	20,078,242
5	Hardware & Hardware Maintenance	42,103,029	54,417,538	12,314,509
6	Contingency	15,000,000	58,627,636	43,627,636
7	Subtotal - Direct Costs	292,722,931	531,955,135	239,232,204
8				
9	Backfill	1,422,626	8,479,263	7,056,638
10	Indirect Support Costs	10,589,195	17,803,472	7,214,277
11	Facilities Allocation	4,126,574	7,856,531	3,729,957
12	Subtotal - Overhead Costs	16,138,395	34,139,266	18,000,871
13				
14	Financing Costs	42,154,600	92,600,000	50,445,400
15				
16	**Total - Nodal Program Costs**	**$ 351,015,926**	**$ 658,694,401**	**$ 307,678,475**
17				
18	Less: Zonal/Nodal Interdependencies	(39,720,226)	(39,720,226)	-
19				
20	**Amount to be Recovered from Nodal Surcharge**	**$ 311,295,700**	**$ 618,974,175**	**$ 307,678,475**
21				
22	NOTE:			
23	Approved budget reflects authorization approved by the Public Utility Commission on May 13, 2008 per Docket 35428.			

Schedule of Alternative Perspectives of Nodal Program Costs

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Cost Elements

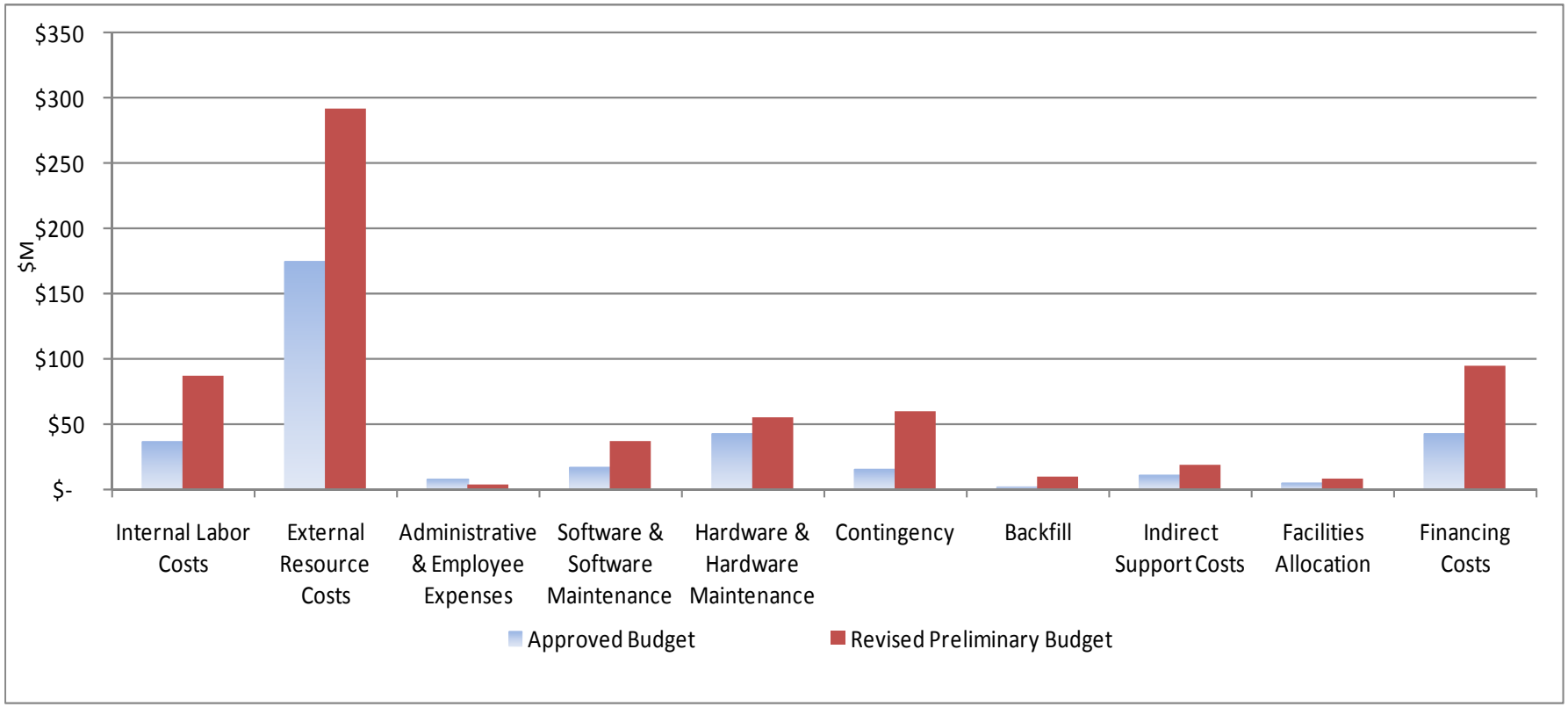
- **Internal Labor Costs**
  - Labor costs of ERCOT employees who are working on the Nodal program.
- **External Resource Costs**
  - Includes both contractor and vendor expenses. Examples of the two types of expenses would be contingent labor contracted to work on the Nodal program, and also software development expenses from the software vendors (ABB, AREVA, etc…). Contractor labor is for staff augmentation where ERCOT does not have the number of employees required to perform the additional Nodal project work or where ERCOT does not have employees with the skills to perform the work.
- **Administrative & Employee Expenses**
  - Equipment, tools, office materials & supplies. Also includes ERCOT employee expenses. For example, the expenses for trips by ERCOT employees to vendor sites to supervise software development would fall into this category.
- **Software and Software Maintenance**
  - Expenses for purchased 3rd party software not being developed solely for the Nodal program. For example, this would include a wide variety of software ranging from Oracle database licenses to Microsoft Windows Server licenses. Also in this cost category are the maintenance expenses associated with the software licenses.
- **Hardware and Hardware Maintenance**
  - Includes all computer hardware purchased to enable the Nodal market and the future maintenance on this equipment. Examples would be servers, data storage hardware and networking equipment.

Cost Elements (continued)

- **Backfill**
  - This category represents the difference between ERCOT's labor expense for an internal employee and a contractor hired to perform that employee's duties while that employee is working on the Nodal program. For example, if the fully loaded cost to ERCOT for an employee was $50/hr and that employee was reassigned from ERCOT base operations to the Nodal program and a contractor was hired at $70/hr to perform the base operations duties while the employee is working on the Nodal program, the cost to the Nodal program is the difference between the two expenses, in this case $20/hr.
- **Indirect Support Costs**
  - Several ERCOT administrative departments charge the Nodal program an allocation for services provided to Nodal. For example, ERCOT Procurement, Finance, Legal, and some others provide their services to the Nodal program. The amount charged to the Nodal program is based on an allocation that has been audited and approved.
- **Facilities Allocation**
  - Similar to the Indirect Support Costs category, the Facilities Allocation is a reimbursement to ERCOT base operations from the Nodal program for the facilities space and services provided by ERCOT to the Nodal program.
- **Finance Charge**
  - Interest expenses related to debt incurred to finance the Nodal program.

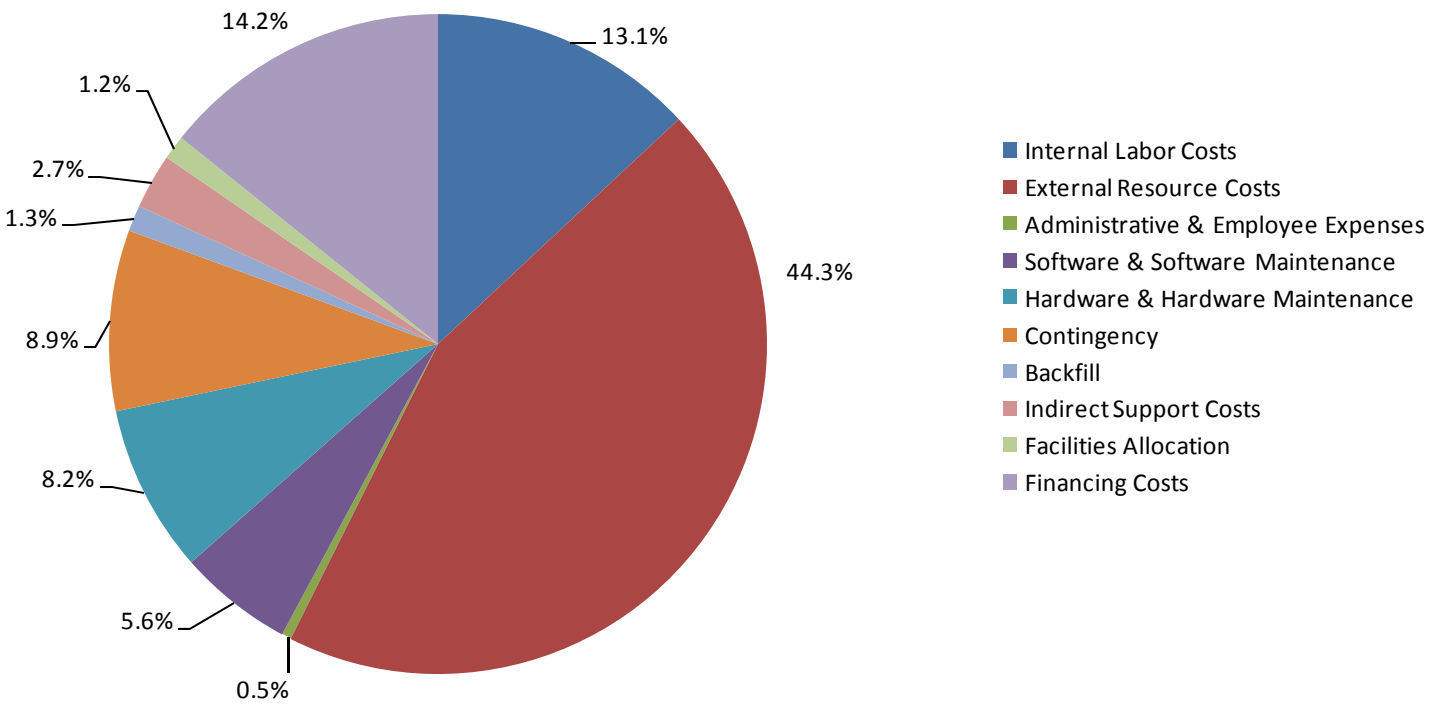
Program Level Approved vs. Revised Preliminary Budget Comparison

Nodal Program Budget Comparison by Cost Element



Revised Preliminary Budget Spend by Cost Element

% Spend by Cost Element

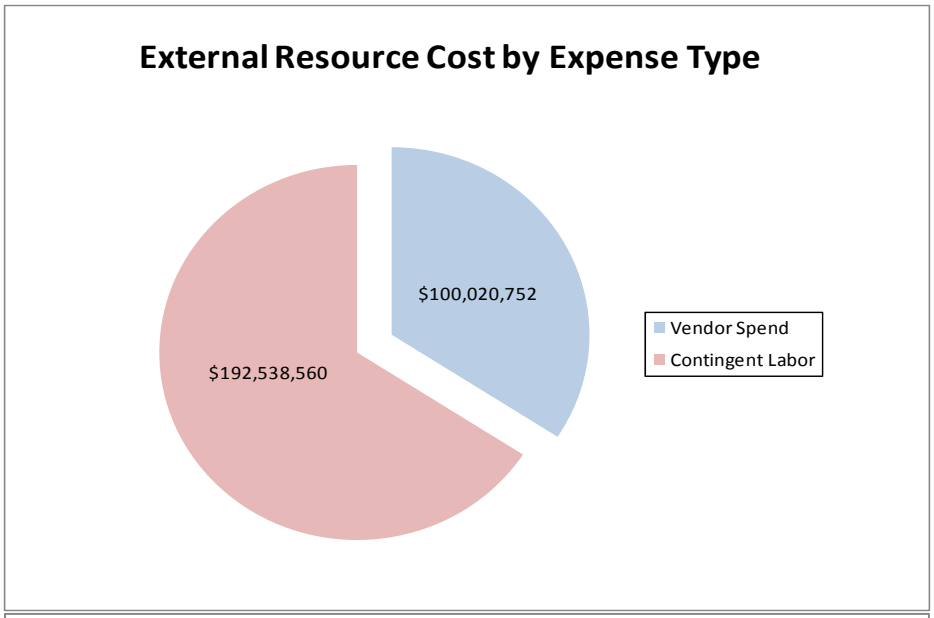


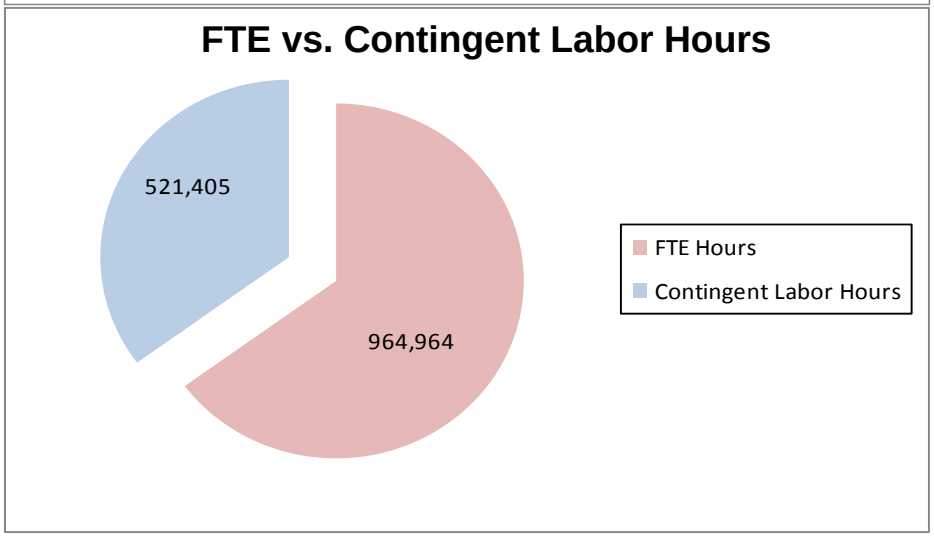
Nodal Program Revised Preliminary Budget - Labor Resources

- The External Resources cost category includes both contingent labor (contractor) and vendor costs associated with software development

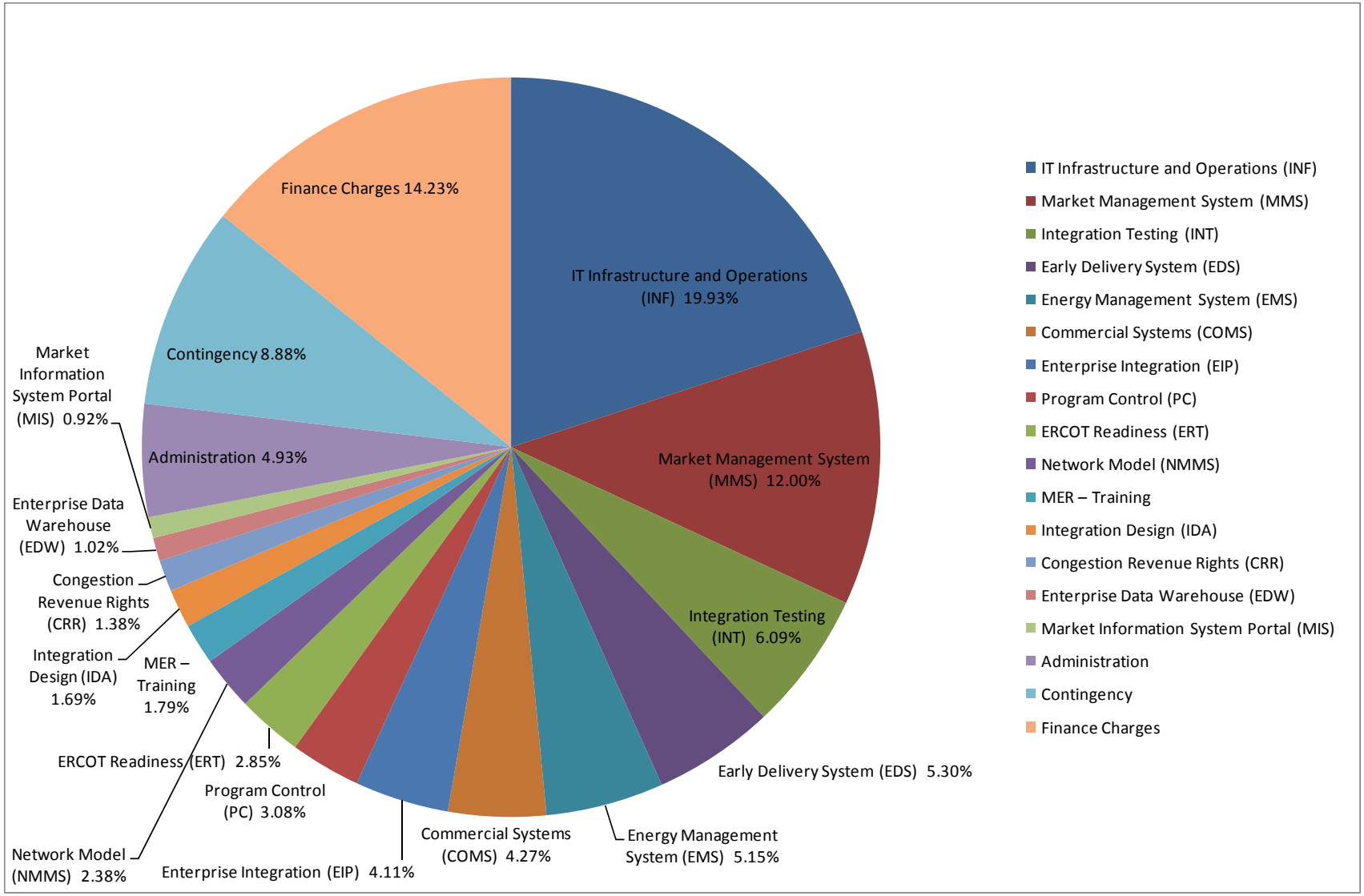
- Of the $292,559,312 in external resource costs included in the revised preliminary budget:
  - 65.8% is budgeted for contingent labor
  - 34.2% is budgeted for vendor spend

- Of the 1,486,369 labor hours estimated to complete the program:
  - 35.1% is contingent labor
  - 69.9% is ERCOT FTE labor

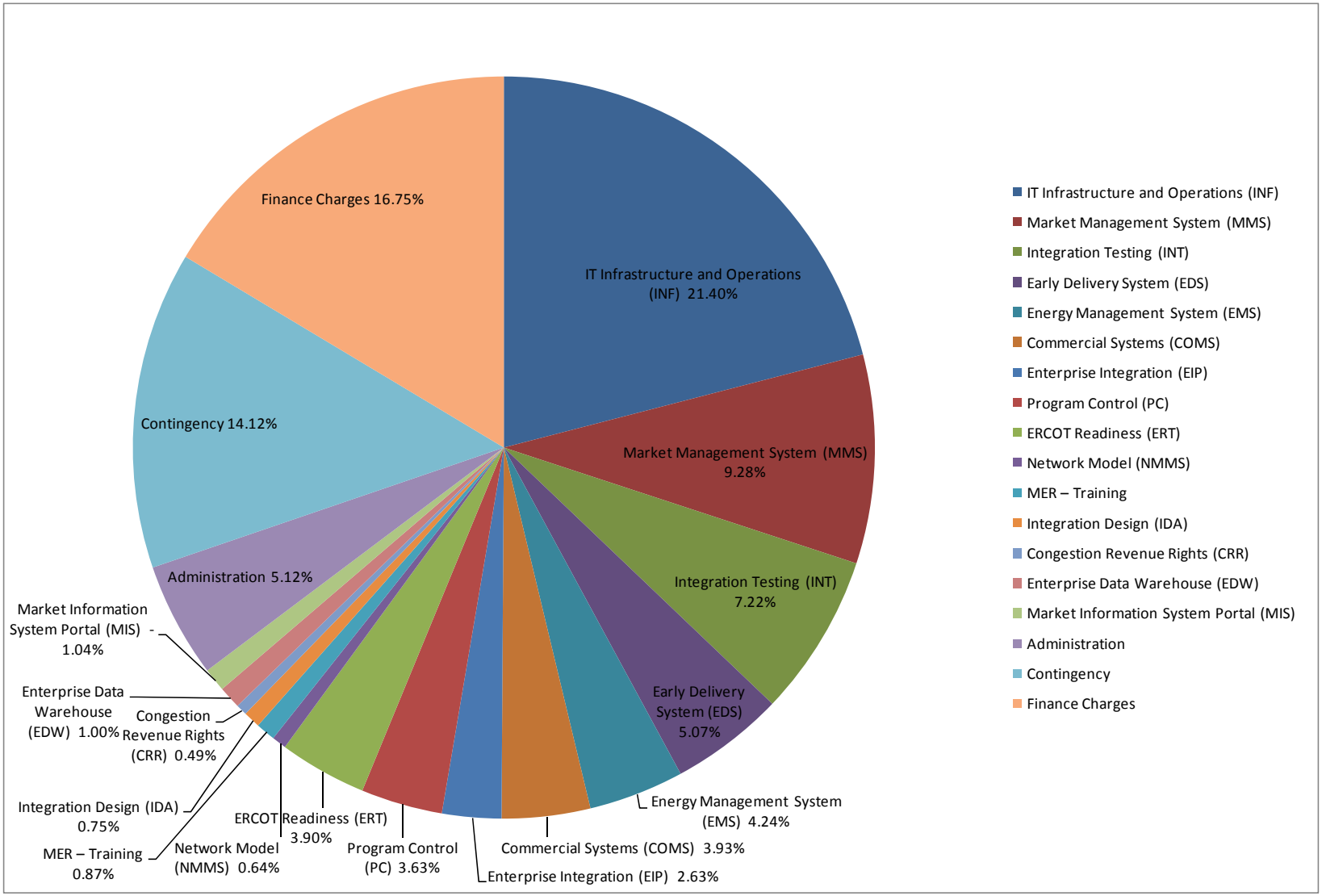




Nodal Program Preliminary Revised Budget - % of Total Program Spend by Project ($660M)



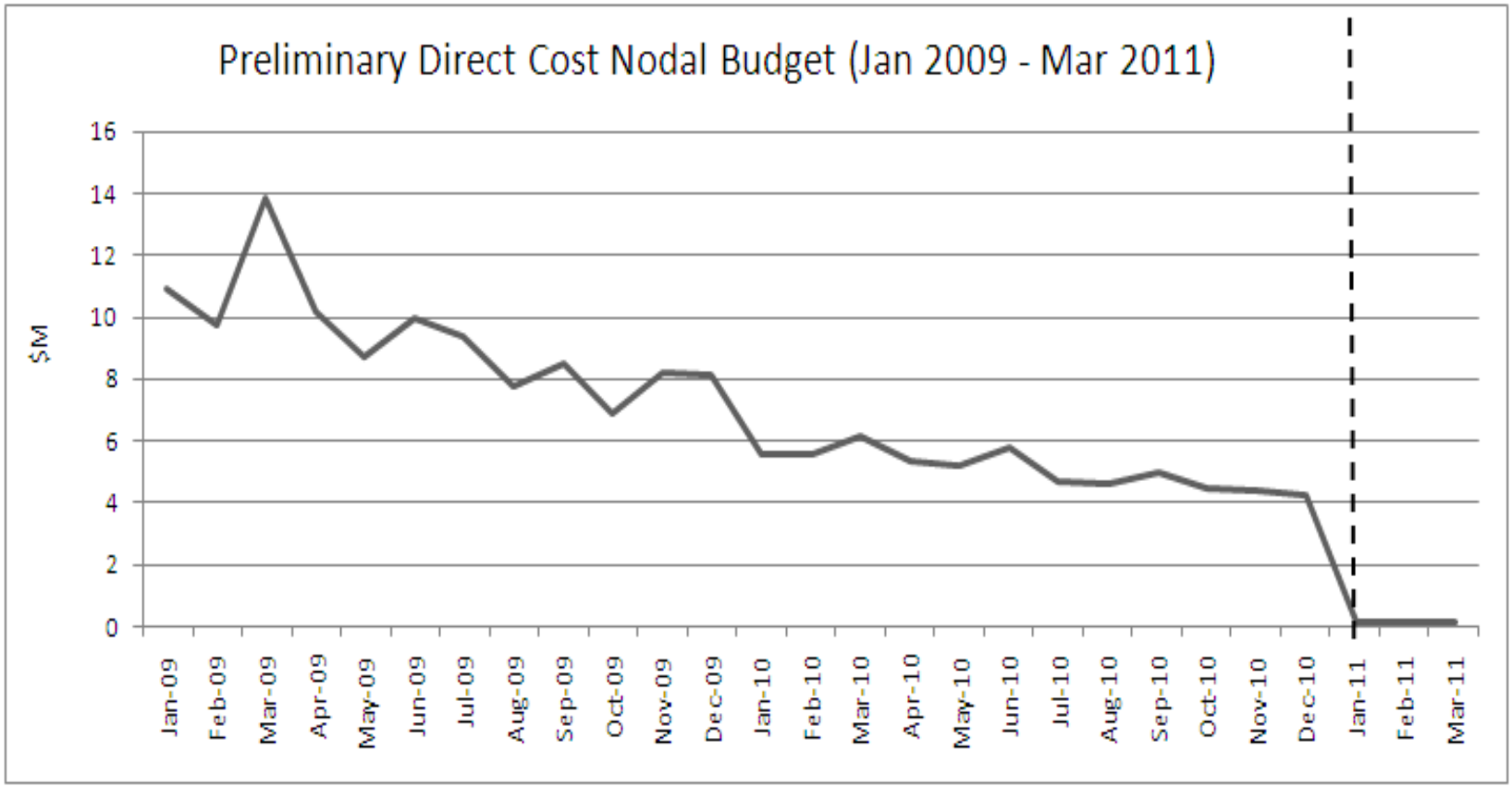
Nodal Program Preliminary Revised Budget - % of Spend by Project of new requested budget ($308M)



Nodal Program Revised Preliminary Budget by Project

Project	Current Approved Budget	Preliminary Revised Budget	Variance
IT Infrastructure and Operations (INF)	65,400,015	131,510,128	101.1%
Market Management System (MMS) – includes IMM and Outage Scheduler	50,527,343	79,187,884	56.7%
Integration Testing (INT)	17,907,527	40,208,318	124.5%
Early Delivery System (EDS)	19,311,548	34,990,107	81.2%
Energy Management System (EMS)	20,913,735	34,003,122	62.6%
Commercial Systems (COMS)	16,022,542	28,173,603	75.8%
Enterprise Integration (EIP)	18,963,151	27,100,067	42.9%
Program Control (PC)	9,092,381	20,305,002	123.3%
ERCOT Readiness (ERT)	6,767,763	18,817,827	178.0%
Network Model (NMMS)	13,709,494	15,691,492	14.5%
MER – Training	9,137,503	11,834,859	29.5%
Integration Design (IDA)	8,876,607	11,183,882	26.0%
Congestion Revenue Rights (CRR)	7,605,047	9,112,429	15.4%
Enterprise Data Warehouse (EDW)	3,655,570	6,756,221	84.8%
Market Information System Portal (MIS) – includes Current Day Reports	9,255,331	6,040,725	-34.7%
Administration	16,715,769	32,551,098	94.7%
Contingency	15,000,000	58,627,636	290.8%
Finance Charges	42,154,600	92,600,000	119.7%
Total	**351,015,926**	**658,694,401**	**87.7%**

Nodal Program Revised Preliminary Budget – Direct Costs by Month



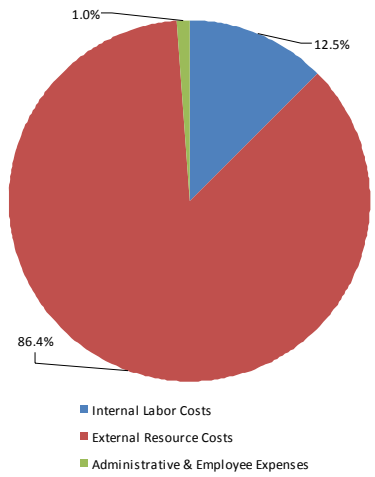
Project Detail

PROGRAM CONTROLS (PC)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 2,194,392	$ 2,538,455	$ 344,063
2	External Resource Costs	6,219,037	17,548,886	11,329,849
3	Administrative & Employee Expenses	678,128	206,967	(471,161)
4	Software & Software Maintenance	-	-	-
5	Hardware & Hardware Maintenance	825	944	119
6	Contingency	595,403	-	(595,403)
7	Subtotal - Direct Costs	9,687,784	20,295,252	10,607,468
8				
9	Backfill	-	9,749	9,749
10				
11	**Total - Direct Costs & Backfill**	$ 9,687,784	$ 20,305,002	$ 10,617,217

Revised Preliminary Budget



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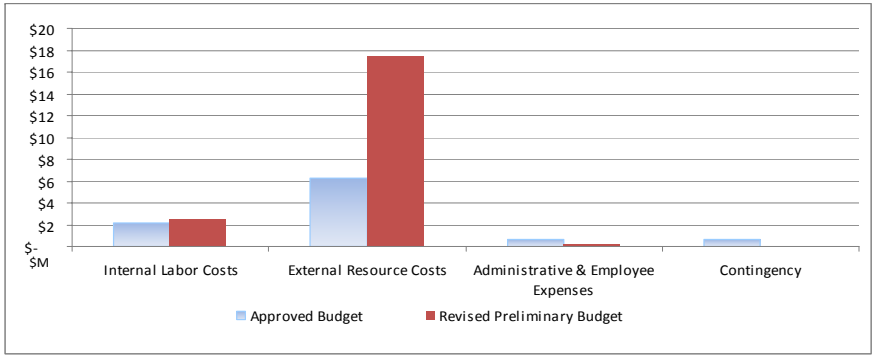


Commentary

- Includes funding for new roles of:
  - Requirements management team (3 people)
  - QA Manager
  - Nodal Resource Manager
  - Program Controls Manager and Master Scheduler
  - Four Project Controllers (previously charged to projects)
  - Nodal communications
  - Information manager for Sharepoint site management
- Includes Structure services to review cost to unwind Nodal contracts
- Includes additional funds for 3rd party auditors (Utilicast), Cost Benefit Analysis (CRA), data center consulting services, and 3rd party negotiator services
- Includes 20% of internal audit salaries
- Includes IBM consulting for Req Pro Requirements tool
- Primary driver for increased labor cost is extended project delivery timeline and additional roles

Program Controls (PC)

Project Overview
The charter for Nodal Program Controls is to provide independent oversight of the Nodal project packages. Program Control will develop and maintain the standards, procedures, and supporting tools related to program management and project management; and provide training and support services to the Nodal program managers and project managers. This will be accomplished by defining project management processes and procedures; scope management; risk and issue management; meeting regularly with project managers and vendors; and program reporting.

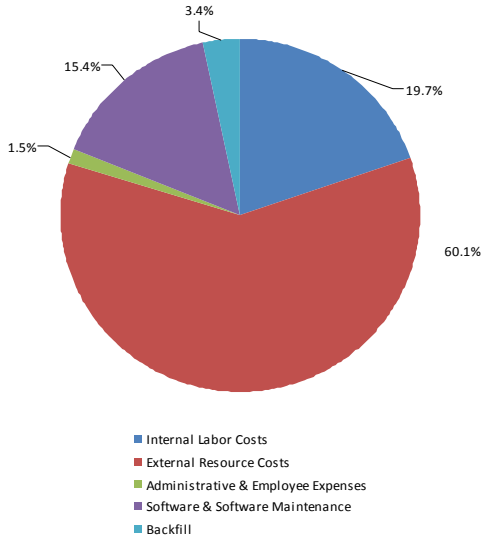
Cost Overview	
Internal Labor	ERCOT employees involved in Program Controls will be engaged at various levels: development and updates to project schedules, development of status reports, development and review of project management processes, quality assurance, managing risks and issues, internal and external communications, stakeholder presentations, data quality, and resource management.
External Labor	The contingent labor associated with Project Controls is mainly focused on PMO leadership, requirements management practice development, master project scheduling and reporting activities; and assistance with risk and issue management and communications . The contingent labor has expertise in these areas and provides a combined set of skills and experience that was not available in ERCOT. For example, no one at ERCOT has the expertise to develop a requirements management practice or to set up the project schedule controls for a program the size and complexity of the Nodal program.
Software and Software Maintenance	

NETWORK MODEL MANAGEMENT SYSTEM (NMMS)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 1,909,356	$ 3,089,428	$ 1,180,071
2	External Resource Costs	9,807,586	9,426,224	(381,362)
3	Administrative & Employee Expenses	150,000	230,163	80,163
4	Software & Software Maintenance	1,828,661	2,416,095	587,434
5	Hardware & Hardware Maintenance	-	-	-
6	Contingency	101,200	-	(101,200)
7	Subtotal - Direct Costs	13,796,804	15,161,910	1,365,107
8				
9	Backfill	13,890	529,582	515,692
10				
11	**Total - Direct Costs & Backfill**	$ 13,810,694	$ 15,691,492	$ 1,880,799

Revised Preliminary Budget



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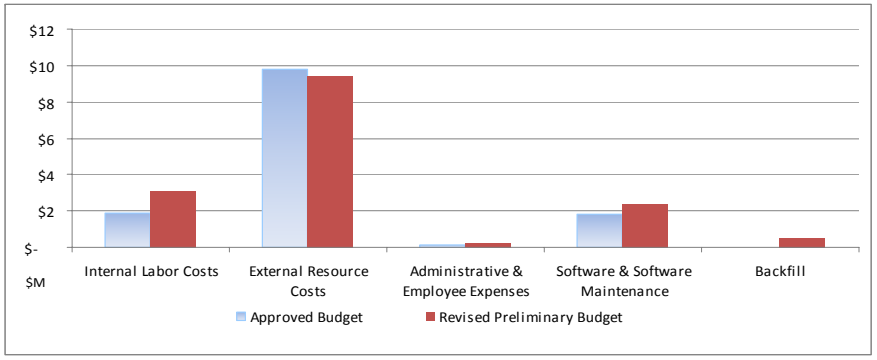


Commentary

- Added resources to support data validation and data quality activities
- Includes funding for backfill resources that are supporting Zonal work
- Travel increased due to travel to Siemens site in for activities in support of pre-FAT
- Majority of spend for NMMS ends after June 2009

Network Model Management System (NMMS)

Project Overview
The Network Model Management System (NMMS) includes the software needed to build a CIM-compliant database operations and planning model and provide interface tools for incremental and bulk updates to the Operations and Planning Network Models. The project includes the software tools that are needed to build and transfer the operations and planning model to EMS, MMS, OS, CRR, MIS, and Registration systems.

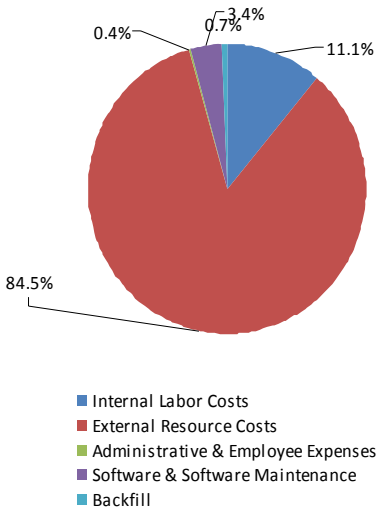
Cost Overview	
Internal Labor	ERCOT employees involved in the NNMS project will be engaged at various levels: development of Network Modeling and Planning Model business processes; building the operations and planning models; documenting and reviewing vendor requirements, design, and test books; participating in pre-FAT and FAT of vendor software releases; coding validation rules; developing; developing NMMS interfaces; and developing market participant training materials.
External Labor	The contingent labor associated with the project is mainly focused on project management and facilitation of the activities required to complete the deliverables. Most of the contingent labor has CIM and energy expertise in these areas and provides a combined set of skills and experience that was not available in ERCOT
Software and Software Maintenance	

ENERGY MANAGEMENT SYSTEM (EMS)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 1,643,630	$ 3,763,267	$ 2,119,637
2	External Resource Costs	18,067,656	28,741,770	10,674,113
3	Administrative & Employee Expenses	413,684	124,361	(289,324)
4	Software & Software Maintenance	637,673	1,148,061	510,388
5	Hardware & Hardware Maintenance	-	3,000	3,000
6	Contingency	4,115,800	-	(4,115,800)
7	Subtotal - Direct Costs	24,878,444	33,780,458	8,902,014
8				
9	Backfill	151,091	222,664	71,573
10				
11	**Total - Direct Costs & Backfill**	$ 25,029,535	$ 34,003,122	$ 8,973,587

Revised Preliminary Budget



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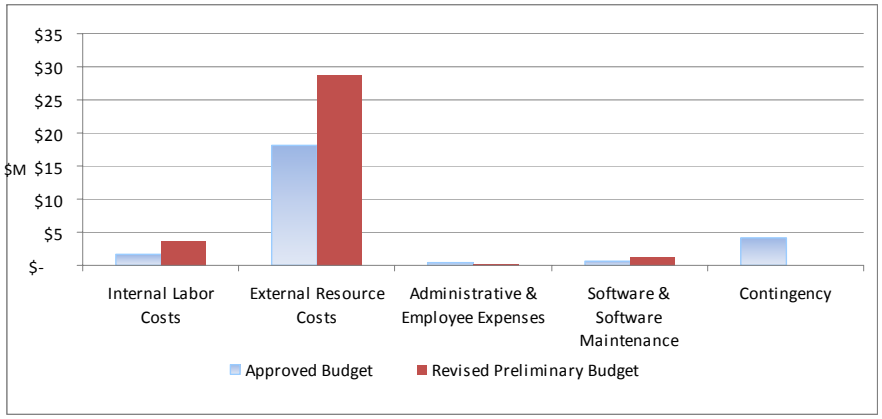


Commentary

Funding Variances include:

- Funds required for extensions to project external and internal labor (over 24,000 additional labor hours; 9,000 external and 15,000 internal) to support the EMS delivered functionality during the additional time estimated due to the overall project delays (was to complete in Sept. 08, now Aug. 09)
- Funds to implement an OTS (Operator Training Simulator) solution for the Nodal Market (over 5200 internal labor hours added to the original budget that did not include a valid estimate for this effort)
- Additional funding for AREVA support & limited maintenance agreement during the extension of the project (2009 & 2010)
- Funds to support the extension of key external contractors and AREVA labor required to complete the development, testing and acceptance of the CIM importer software and project management
- Funds to cover additional internal and external labor costs to develop, test and deliver functionality associated with NPRRs and CIs
- Funds to cover external labor for the development and delivery of training (not in original budget)

Energy Management System (EMS)

Project Overview
The charter for Energy Management System (EMS) project states their scope to be “Implement the Nodal Energy Management System (EMS) and Renewal Production Potential (RPP) compliant and in accordance with the requirements as set forth in the Texas Nodal Protocols approved by Order signed by the PUCT on April 5, 2006.” This will be accomplished through the upgrade of the existing EMS platform and implementation of the required custom features for meeting the specific new Market Redesign protocols and requirements, including a Common Information Model (CIM) import solution to create all required real-time databases based on the ERCOT Network Model, a new State Estimator function that meet State Estimation Standards and monitoring requirements, a Topology Consistency Analyzer, Forced Outage Detection, Contingency Analysis, Outage Evaluation, Voltage VAR Support Tools, Transmission Constraint Manager, Dynamic Ratings Enhancements, Network Analysis Support Tools, TSAT/VSAT enhancements and SCADA enhancements.

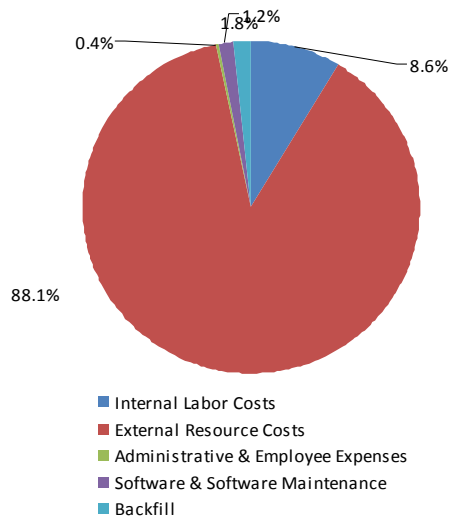
Cost Overview	
Internal Labor	ERCOT employees involved in the EMS project are engaged at various levels: leading project engineering, leading application services, managing the Operator Training Simulator and System Operations Test Environments implementation, application/software developers, systems administration services, power applications subject matter experts, testers, and integration support.
External Labor	The contingent labor associated with the EMS project is mainly focused on project management and facilitation of the activities required to complete the EMS deliverables. Most of the contingent labor has power systems analysis and operations expertise in these areas and provides a combined set of skills and experience that was not available in ERCOT. For example, ERCOT has no prior experience with AREVA CIM Exporters and Importers and key external resources with that experience are part of the project. AREVA T&D is the supplier of the EMS base systems. AREVA is engaged as a complementary developer of several custom EMS enhancements required to meet Nodal Protocol requirements including the CIM Importer software for the EMS project.
Software and Software Maintenance	ERCOT will need to enter into a maintenance agreement that provides the necessary support from AREVA for activities such as additions to the software, troubleshooting, defect resolution, and creation, testing and delivery of new release and patches post go-live.

MARKET MANAGEMENT SYSTEM (MMS)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 3,228,338	$ 6,805,199	$ 3,576,861
2	External Resource Costs	45,483,528	69,743,519	24,259,991
3	Administrative & Employee Expenses	274,424	281,119	6,695
4	Software & Software Maintenance	1,000,000	960,445	(39,555)
5	Hardware & Hardware Maintenance	500,000	-	(500,000)
6	Contingency	2,000,000	-	(2,000,000)
7	Subtotal - Direct Costs	52,486,290	77,790,282	25,303,992
8				
9	Backfill	41,053	1,397,602	1,356,549
10				
11	**Total - Direct Costs & Backfill**	$ 52,527,343	$ 79,187,884	$ 26,660,541

Revised Preliminary Budget



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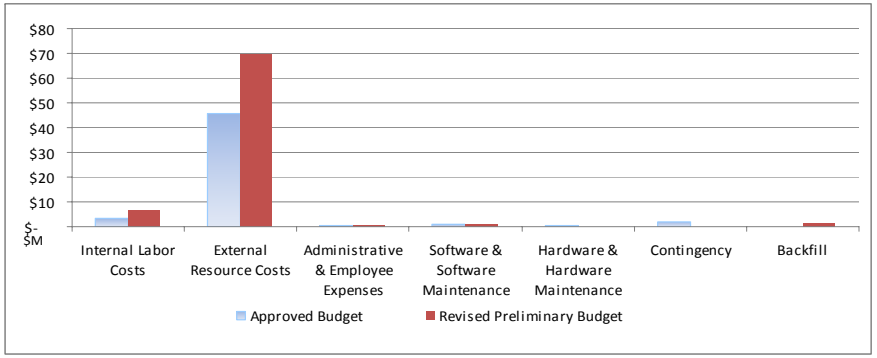

Commentary

- The MMS project added 3 patches to the last planned release and one additional release (including pre-FAT, a full regression FAT and 8 planned patches through FAT, integration testing & EDS) to accommodate the timing change with delivery of the validated synchronized CIM data file. These additions to the schedule account for the majority of the increase in labor and expenses.
- The remainder of the increase was for additional funding to complete Outage Scheduler testing and bug fixes; and for project implementation activities necessary to meet the IMM data and enhanced study tools requirements
- Key external resources are performing project management, business analysis, and subject matter expert roles in support of MMS
- Majority of vendor spend for MMS ends after August 2009 when the last release has completed full regression testing

Market Management System (MMS)

Project Overview
The charter for the Market Management System (MMS) project defines the project scope as "100% replacement of existing zonal Market Management System (MMS) with new Market Management System (MMS) compliant with the nodal market requirements and as defined by the Protocols approved by the PUCT. Market Management System (MMS) is the Nodal system used to run the Day-Ahead and Real-Time Markets, Reliability Unit Commitment (RUC) and Supplemental Ancillary Services Market (SASM).

Cost Overview	
Internal Labor	ERCOT employees involved in the MMS project are engaged at various levels: • Subject matter experts own overall system architecture and requirements documents, engage with ABB as leads for design, development, testing, and implementation activities across the major components of the system (e.g., DAM, RUC); subject matter experts are also the leads for process and procedure development, and interface with the key stakeholders (e.g., TPTF, trainers) on their areas of expertise; • Analysts support the subject matter experts in areas such as testing, troubleshooting, data analysis, artifacts review; • Market operations support (MOS) management owns the MMS application and acts as the business sponsor for the MMS project.
External Labor	ERCOT lacks enough resources with specific domain experience necessary to effectively meet all the scheduled activities. Contingent labor resources will also be used to 'backfill' for ERCOT resources not assigned to the nodal project to allow those ERCOT employees to participate in the program in preparation for their role after nodal go-live. The contingent labor resources associated with the MMS project are focused in the following areas: • Project management and project controls: Contingent labor project management resources are needed to effectively manage the MMS project and vendor, since ERCOT resources have not implemented a standalone MMS in the past. The opportunity to have gained that experience internally did not exist at ERCOT prior to the nodal program. • Subject matter experts: Contingent labor subject matters have many years of broad and deep market-specific experience and are being leveraged to support the ERCOT subject matter experts activities' described above. • Business analysts: Contingent labor business analysts have experience or education necessary to complete tasks requiring analysts skills and are being leveraged to support the ERCOT business analyst activities described above (e.g., testing) • ABB is the vendor for the MMS project. They are responsible for delivering a high quality MMS that meets all the requirements as defined in the five MMS requirements documents. In addition to delivery of the actual software, their costs include all the additional activities required to support delivery and testing of a major software application (e.g., project management, internal QA, third party software, licenses fees).
Software and Software Maintenance	ABB maintains ownership of the code, therefore ERCOT will need to enter into a maintenance agreement that provides ERCOT with the necessary support from ABB for activities such as additions to the software, troubleshooting, defect resolution, and creation, testing and delivery of new release and patches post go-live

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Outage Scheduler (OS) (A subproject of MMS)

Project Overview
The ERCOT Outage Scheduler (OS) supports the ability to submit transmission equipment and generation resource outage requests and to manage those requests throughout their life cycles. The Outage Scheduler makes outage data available to other ERCOT systems. Outage requests for transmission equipment and generation resources are submitted by their respective transmission service providers and qualified scheduling entities or, where and when authorized, on their behalf by ERCOT outage coordinators or ERCOT system operators. Outage Scheduler supports all outage types required by the Texas Nodal Protocols. It provides the capability for managing outage life cycles including enforcing outage scheduling rules. NOTE: There was not a separate charter for the OS project. It is included in the MMS project charter as a deliverable.

Cost Overview	
Internal Labor	ERCOT's internal resources are responsible for OS requirement definitions and the testing of the ABB developed product through the Nodal program life cycle (e.g., project development and testing, integration development and testing, market facing testing).
External Labor	The OS application is developed by ABB, an external vendor. They are responsible for artifact development (e.g., requirements, functional design, conceptual design, detail design, use cases, test plans, test cases and test scripts), and application design, development, testing, maintenance and support of the OS application. Some of the critical skill sets that were not available internally at ERCOT will be filled in by contract resources. ERCOT has utilized contractors for the project management, testing and coordination of the testing and market trial activities for designing, developing and testing the replacement of the market-facing user interface delivered by ABB. The ongoing maintenance and support activities of the OS application and user interface will be transitioned to the ERCOT home team upon completion of the integration test.
Software and Software Maintenance	ABB maintains ownership of the OS code, therefore ERCOT will need to enter into a maintenance agreement that provides ERCOT the funding necessary to obtain support from ABB for activities such as additions to the software, troubleshooting, defect resolution, and creation, testing and delivery of new release and patches post go-live.

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Independent Market Monitor (IMM) (A subproject of MMS)

Project Overview
The Independent Market Monitor (IMM) project is in the process of defining the requirements necessary to meet the Independent Market Monitor's (IMM) need for additional study tool capabilities that will enable them to effectively and accurately monitor and analyze the ERCOT nodal market. These requirements are in addition to those that will be met via the market management system (MMS) currently being delivered by ABB. The next phase of the project will include development of a complete project schedule and will cover all project requirements through deployment and testing (e.g., infrastructure, software (MMS, MMS third party requirements) and integration into the nodal environments).

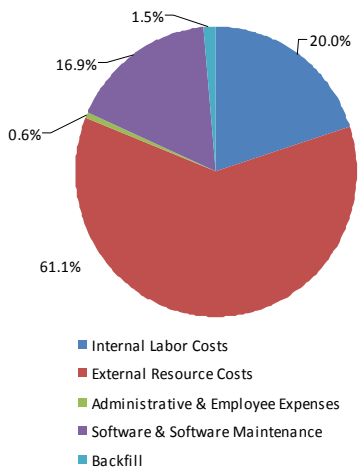
Cost Overview	
Internal Labor	IMM employees involved in the IMM project are fulfilling the following roles/responsibilities ▪ Subject matter expert responsibilities include schedule-related activities such as: project and business sponsorship; requirements definition, review and approval; engaging with MMS project and market operations support (MOS*) resources regarding design, development, testing, and implementation activities since IMM will leverage the MMS application; and interfacing with the key stakeholders for IMM-related activities (e.g., TPTF) ▪ ERCOT employees involved in the IMM project are fulfilling the following roles/responsibilities: analysts to support the IMM subject matter experts and perform schedule-related activities such as supporting the requirements definition and documentation; *market operations support (MOS) management owns the MMS application, acts as the business sponsor for the MMS project and is the ERCOT liaison to the IMM NOTE 1: An ERCOT project manager will be joining the IMM project at the beginning of the next phase (February 2009) to create the complete schedule and fulfill all project management activities NOTE 2: later in the project ERCOT business analyst and subject matter experts will be available to support the IMM in roles and responsibilities similar to those defined for these resources in the MMS project
External Labor	The only contingent labor resources associated with the IMM project at this point is an MMS subject matter expert with experience in defining requirements based on broad and deep market knowledge; this role is being filled by a contractor since the ERCOT resource with this skill was fully allocated to the MMS project. ABB is the vendor for the IMM project since the MMS application will be the software modified to meet the IMM project requirements.
Software and Software Maintenance	ABB maintains ownership of the MMS code; therefore ERCOT will need to enter into a maintenance agreement that provides the IMM the funding necessary to obtain support from ABB for activities such as additions to the software, troubleshooting, defect resolution, and creation, testing and delivery of new release and patches post go-live.

CONGESTION REVENUE RIGHTS (CRR)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 1,110,376	$ 1,818,263	$ 707,887
2	External Resource Costs	3,967,830	5,565,252	1,597,422
3	Administrative & Employee Expenses	143,492	53,468	(90,023)
4	Software & Software Maintenance	2,265,075	1,538,350	(726,725)
5	Hardware & Hardware Maintenance	-	1,649	1,649
6	Contingency	290,000	-	(290,000)
7	Subtotal - Direct Costs	7,776,773	8,976,983	1,200,210
8				
9	Backfill	118,275	135,447	17,172
10				
11	**Total - Direct Costs & Backfill**	$ 7,895,047	$ 9,112,429	$ 1,217,382

Revised Preliminary Budget



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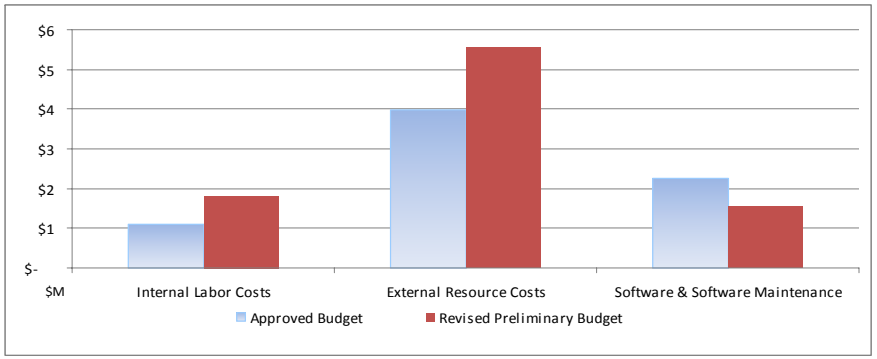


Commentary

- The CRR project's budget is increased due to the extended timeline for the internal and external labor costs needed for the duration of the project

Congestion Revenue Rights (CRR)

Project Overview
The CRR project provides business processes and systems to allow the CRR account holders to purchase rights to be charged or receive compensation for locational marginal price differences that arise when the ERCOT transmission grid is congested in the day-ahead or real-time markets. The CRR system is an entirely new market system that will replace the application currently in place for the zonal transmission congestion rights (TCR) market. The CRR system will allow for up to approximately 120 million products to be sold in each auction, as opposed to the five directional products currently auctioned in the TCR market. The CRR system allows for product interactions not currently available in zonal, which in turn requires power flow integration. Finally electronic connectivity between the CRR system and other ERCOT systems/departments will be implemented.

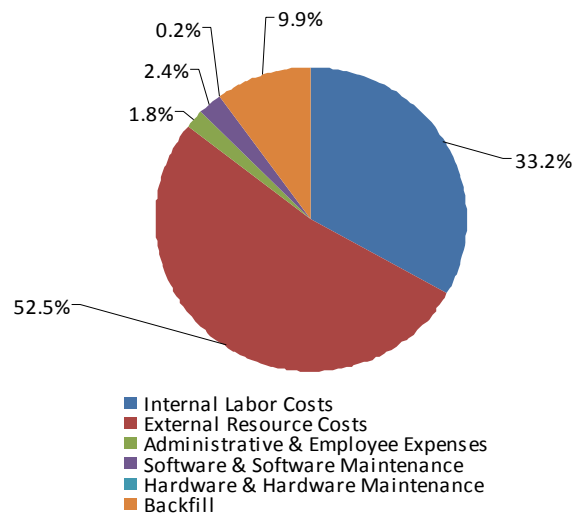
Cost Overview	
Internal Labor	Internal resource SMEs will be actively involved in integration and EDS testing efforts. As part of the 2010 EDS schedule, CRR SMEs will be on hand to run three separate annual auctions: a test auction for EDS3 Release 7, a mock auction for the 168-hour test, and the first monthly go-live CRR auction for the month of the Nodal Implementation. Tasks involved in running auctions include creating network models, creating source/sink lists, creating contingency lists, and creating flowgate lists and definitions. The CRR home team currently consists of three employees, two of whom are 50% committed to zonal.
External Labor	The CRR Team is using consultants for its needs in the areas of technical architecture, integration framework and project analysis, areas in which the current CRR team has neither the bandwidth nor the expertise to complete in-house.
Software and Software Maintenance	CRR currently has in place an interim maintenance agreement (IMA) used to provide on-site vendor support during the period between the completion of the work required under the SOW and the commencement of the Annual maintenance Agreement. The current agreement will conclude in August 2009. The IMA will be extended on a quarterly basis until the Texas Nodal Market Implementation. Quarterly fees for the IMA will be $37,000. Once the CRR system is placed into production, The Annual Maintenance will be activated. The price of the Annual Maintenance Agreement will be negotiated at a later date.

COMMERCIAL SYSTEMS (COMS)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 5,035,030	$ 9,343,925	$ 4,308,895
2	External Resource Costs	8,476,570	14,790,414	6,313,844
3	Administrative & Employee Expenses	200,000	514,781	314,781
4	Software & Software Maintenance	1,458,469	670,847	(787,622)
5	Hardware & Hardware Maintenance	10,400	66,356	55,956
6	Contingency	865,000	-	(865,000)
7	Subtotal - Direct Costs	16,045,469	25,386,322	9,340,853
8				
9	Backfill	842,073	2,787,281	1,945,208
10				
11	**Total - Direct Costs & Backfill**	$ 16,887,542	$ 28,173,603	$ 11,286,061

Revised Preliminary Budget



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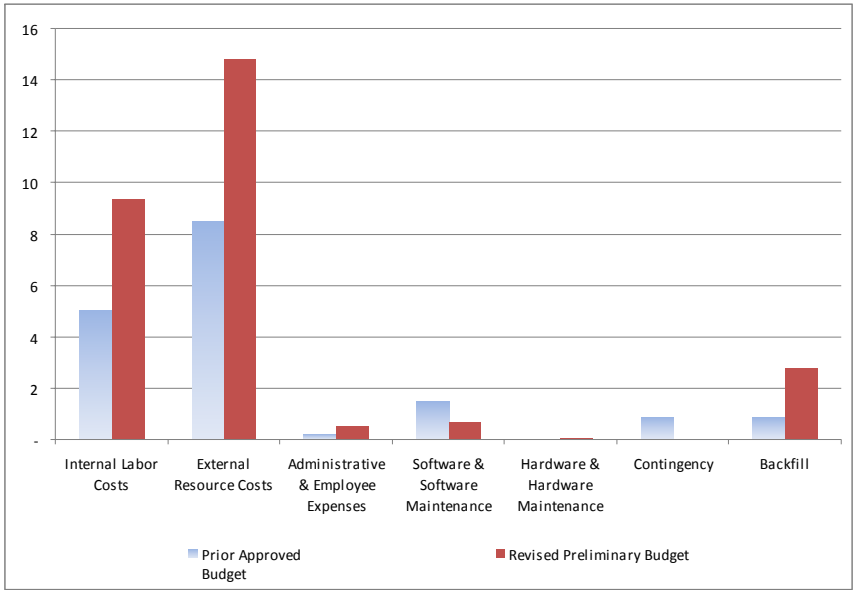


Commentary

- This funding request includes funds to support the development of CSI (Commercial Services Integration)
- This funding request includes substantial backfill funds for contractors to perform Zonal Settlement & Billing functions as nearly the entire ERCOT Settlements & Billing team is engaged in the Nodal development
- The COMS project is heavily staffed with ERCOT internal resources. Resources are staffed under business and development.
- Credit Management Module (CMM) software development and support is included in the COMS budget
- This funding request includes Oracle development and support for Lodestar

Commercial Systems (COMS)

Project Overview
The Commercial Systems scope covers delivery of all new and enhanced functionality to deliver the Nodal Protocols. Business functions included in the scope of Commercial Systems are: Settlements and Billing, Data Aggregation, Metering, Load Profiling, Credit Monitoring and Management, Registration, Disputes, Financial Transfer and commercial enterprise interfaces/integration. Functionality to be developed and delivered are: (majority is new development on enhanced legacy systems) ▪ Settlement of the Day Ahead and Real Time Energy ▪ Settlement of the RUC ▪ Settlement of Ancillary Services ▪ Settlement and Invoicing of CRR (including CRR Balancing Account and CRR Auction Revenue Disbursement) ▪ Settlement System Upgrade ▪ Statements/Invoices (including CRR Invoicing) ▪ Credit Monitoring (new infrastructure / Vendor software product) ▪ Data Aggregation ▪ Metering ▪ Load Profiling ▪ Commercial System and Cross Package Interfaces ▪ Financial Transfer (new infrastructure ▪ AS Obligations Calculations ▪ Validation and Delivery of Invoices and Statements ▪ Settlement Validation, Audit, and Reporting Tools ▪ Batch Scheduling ▪ Registration ▪ Dispute Tools ▪ Extracts for Commercial Systems (new infrastructure)

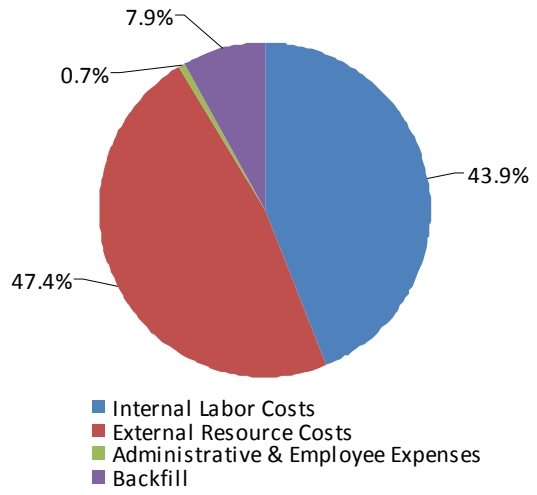
Cost Overview	
Internal Labor	ERCOT employees are providing project management, requirements development, design, test plans, code development, executing test and supporting market trials, and providing advocate support to market participant subcommittees, working groups and task forces. 72 of the 93 COMS resources are ERCOT FTEs.
External Labor	The contingent labor consist of additional staff needed for the development of Commercial Services Integration, Lodestar data aggregation, external facing dispute tool development, project management for Settlements, and 12 Zonal backfill resources for the ERCOT FTEs working on the COMS project.
Software and Software Maintenance	Software vendor labor consists of metadata development from Oracle (Lodestar) for Settlements and software development, patching and project management services from Triplepoint for the Credit Management System. Software licensing agreements with Triplepoint are in place and currently budgeted by COMS for the Credit Management System

EARLY DELIVERY SYSTEMS (EDS)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 8,676,012	$ 15,374,424	$ 6,698,411
2	External Resource Costs	10,237,995	16,580,041	6,342,046
3	Administrative & Employee Expenses	360,514	252,336	(108,178)
4	Software & Software Maintenance	937	1,064	127
5	Hardware & Hardware Maintenance	-	12,092	12,092
6	Contingency		-	-
7	Subtotal - Direct Costs	19,275,458	32,219,956	12,944,498
8				
9	Backfill	36,090	2,770,152	2,734,062
10				
11	**Total - Direct Costs & Backfill**	$ 19,311,548	$ 34,990,107	$ 15,678,559

Revised Preliminary Budget



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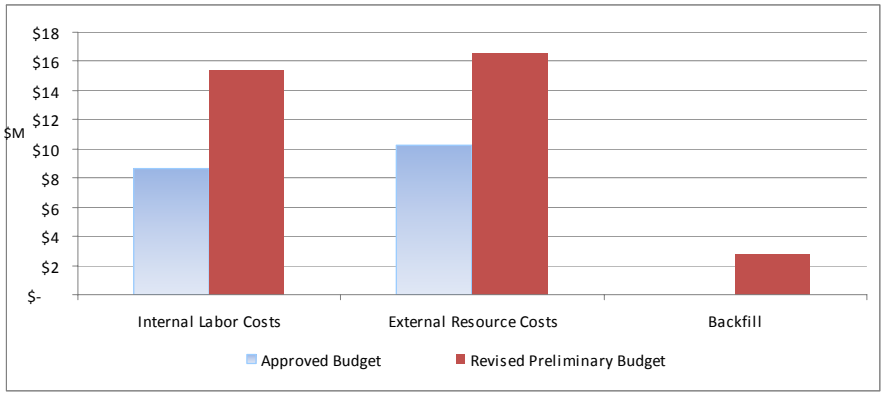


Commentary

- The EDS project timeline extends through market go-live in December 2010, but spending does not increase until January 2010
- The EDS project includes substantial backfill funding to fulfill Zonal responsibilities while ERCOT FTEs are contributing to EDS efforts
- EDS deliverables include executing all market trials and executing all Nodal go live activities

Early Delivery Systems (EDS)

Project Overview
The charter for ERCOT early delivery systems (EDS), states their scope to be the "Definition and Execution of Early Delivery Systems (EDS) and Zonal to Nodal transition." The EDS activities are more commonly referred to as market trials in other ISOs. The defining objective of this work is to sufficiently exercise the people, processes, and technology of the ERCOT market, for both ERCOT and market participant organizations, under Nodal protocols to ensure continuity of the electric grid and energy market during the transition to Nodal. This will be accomplished by working with the Nodal program and market participants to: ▪ Define and execute all Nodal market trial activities from system planning and operations, to market execution, to financial settlement. ▪ Define and measure all market metrics for reporting to TAC. ▪ Define and execute Nodal Go-Live activities

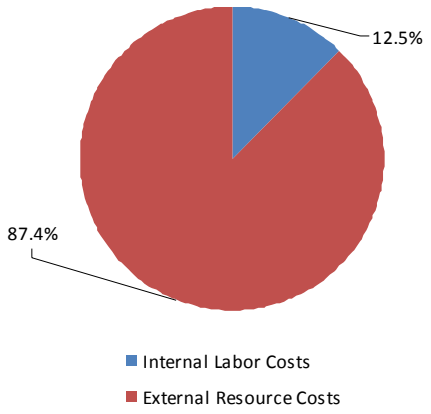
Cost Overview	
Internal Labor	ERCOT internal labor for the EDS project fits into two engagement categories: ▪ ERCOT supervisors and managers engaged in developing the approach and execution plans for market trial activities. These activities include extensive planning meetings, engagement with market to refine test plans, and provide support during trial execution. ▪ ERCOT business and IT staff execute and support the activity for the test duration and reporting of the results. This is the staff which will ultimately own the nodal systems and processes.
External Labor	The external labor associated with the EDS project fits into three categories ▪ Contract staff for project management, facilitation, and documentation support in order to effectively plan, document, and execute the EDS activities. The ERCOT staff that executes the trial does not have the expertise or the bandwidth to focus on these detailed planning and documentation activities leading into the tests. ▪ Contract staff for market support to address questions and communicate with more than 150 market participant organizations. This temporary staff addresses the details of market trials. ▪ Contract staff to backfill for ERCOT zonal employees who are needed for market trial execution and support.
Software and Software Maintenance	There is no application software associated with the EDS project

SYSTEMS INTEGRATION (Formerly EIP)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 1,183,959	$ 3,394,106	$ 2,210,146
2	External Resource Costs	15,933,586	23,697,382	7,763,796
3	Administrative & Employee Expenses	1,845,606	3	(1,845,603)
4	Software & Software Maintenance	-	6,338	6,338
5	Hardware & Hardware Maintenance	-	-	-
6	Contingency	3,377,794	-	(3,377,794)
7	Subtotal - Direct Costs	22,340,945	27,097,828	4,756,883
8				
9	Backfill	-	2,239	2,239
10				
11	**Total - Direct Costs & Backfill**	$ 22,340,945	$ 27,100,067	$ 4,759,122

Revised Preliminary Budget



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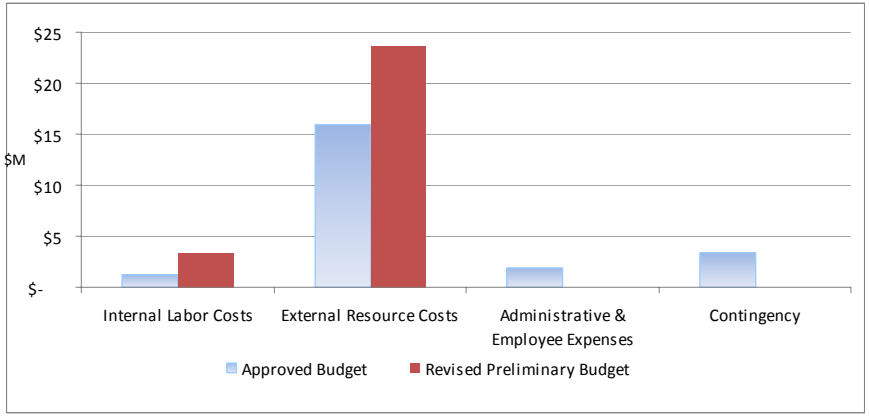


Commentary

- The EIP project is heavily dependent on external contractors for the design and development of software interfaces and integration points
- Internal Labor allocation increased to 95% of all Home team resources to facilitate knowledge transfer and support development activity
- Retaining these external resources on the extended project timeline is the main driver for the increased funding request
- External Labor spend ends after September 2009

Systems Integration (formerly Enterprise Integration Project (EIP))

Project Overview
The Systems Integration project is tasked with developing software to enable systems to share data to enable end-to-end business processes required by the Nodal program. Included in this effort is the external web services interface, which will be the market participant's primary interface into the market systems. Additional software components within scope include a common services infrastructure for logging, exception management, and auditing as well as monitoring and other operational support components. The software is developed using TIBCO, an integration toolset which is currently in use at ERCOT in other systems.

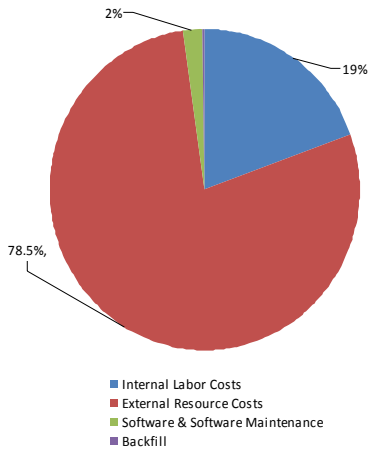
Cost Overview	
Internal Labor	Five internal development resources are fully allocated to the Nodal program. These resources have been assigned deliverables and are in the process of transitioning knowledge and responsibility for those deliverables from external resources. The overall objective is to be fully internally supported by the start of market trials. Responsibilities include: Creation and revision of Analysis and Design documents, development and unit test of software, resolution of software defects.
External Labor	External resources have been utilized for a majority of the effort in Systems Integration. ERCOT did not have sufficient internal resources to complete this project. Additionally, given the size of the effort, the available internal resources did not have sufficient experience to complete the task. These external resources are sourced from two different vendors—UISOL to support design and initial quality assurance capabilities, and Perficient to support the software development effort. Two individuals are currently sourced as contingent labor—one provides quality assurance testing and the other supports the team's software build and deployment process.
Software and Software Maintenance	The TIBCO toolset is covered by an enterprise support contract, which covers all TIBCO products utilized by ERCOT. The contract provides on-call support five days per week during business hours, support via e-mail, and distribution of product patches.

INTEGRATION TESTING (INT)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 1,313,632	$ 7,806,625	$ 6,492,993
2	External Resource Costs	15,790,697	31,549,120	15,758,423
3	Administrative & Employee Expenses	48,999	1,271	(47,728)
4	Software & Software Maintenance	685,608	816,891	131,283
5	Hardware & Hardware Maintenance	-	(34,180)	(34,180)
6	Contingency	935,000	-	(935,000)
7	Subtotal - Direct Costs	18,773,936	40,139,728	21,365,791
8				
9	Backfill	68,590	68,590	-
10				
11	**Total - Direct Costs & Backfill**	$ 18,842,527	$ 40,208,318	$ 21,365,791

Revised Preliminary Budget



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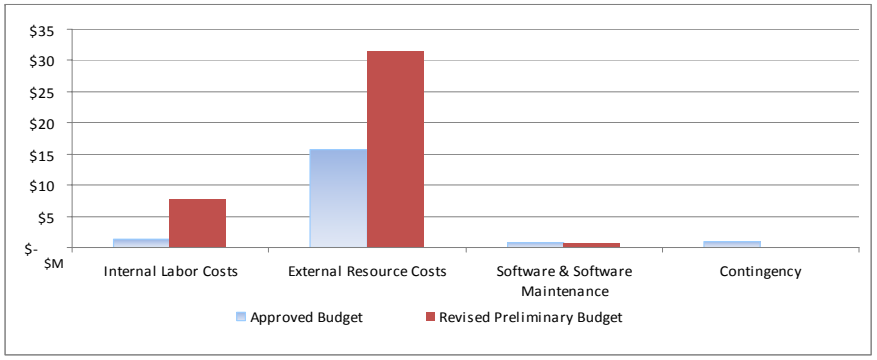


Commentary

- The Integration testing budget includes funds for external and internal resources to test integration functionality of the core software systems – this work includes:
  - Design of test cases
  - Design of test scripts
  - Execution of all integration testing

Integration Testing (INT)

Project Overview
The charter for the Integration Testing (INT) Project is to test and validate data integration (bid to bill data flow) and IT operational readiness of the Nodal systems in preparation for market participant testing. This will be accomplished through the: ▪ Definition and build out of the Nodal integration test environment ▪ Development of the Nodal integration test strategy and integrated release test plans ▪ Development of the integrated release schedule ▪ Management, coordination and tracking of the Nodal release pipeline ▪ Definition and execution of integration and operational readiness test cases and scripts that are traceable to integration specifications, Nodal supplemental requirements, and end-to-end market and operations use cases ▪ Definition of the integration defect management process, and the definition, deployment, and management of testing tools, processes, and staff.

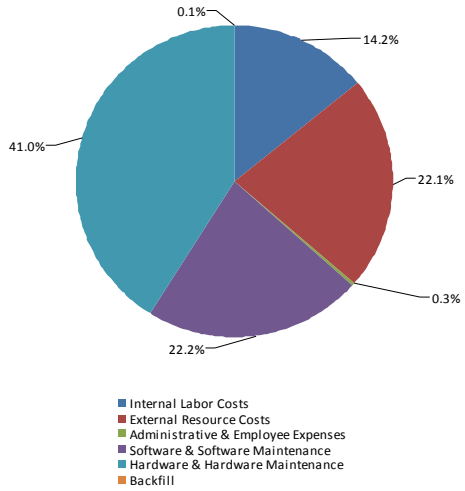
Cost Overview	
Internal Labor	ERCOT employees are involved in the INT project at all levels of the integration test planning and execution activities. Specifically, ERCOT employees are supporting the design and build out of the integration test environment, participating in the development, review and approval process for the integration test strategy, test plans, and test cases, supporting the definition and implementation of testing tools and automation framework, managing the integration defect management process, and supporting the day-to-day integration test execution, results validation, coordination, tracking, control and status reporting to the program.
External Labor	The contingent labor associated with the INT Project is supporting the following roles: project manager (PM), technical and functional subject matter expert (SME), and integration tester. The PM and SME roles have been filled with contingent labor, where necessary, because the required skills and domain experience were not available within ERCOT. ERCOT internal resources (business owners) will take on more responsibility for integration test execution as the INT schedule progresses. Additionally, contingent resources are being used to augment the ERCOT enterprise test team driven by the need for an increase integration test resources to meet schedule. There are no software vendors associated with the INT project.
Software and Software Maintenance	The INT project paid for one year of software maintenance and support on the following test tools: Mercury Quality Center, LISA and Quick Test Pro.

IT OPERATIONS AND INFRASTRUCTURE (INF)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 2,182,376	$ 18,708,251	$ 16,525,875
2	External Resource Costs	12,838,766	29,083,524	16,244,758
3	Administrative & Employee Expenses	346,727	434,416	87,689
4	Software & Software Maintenance	8,404,523	29,221,135	20,816,612
5	Hardware & Hardware Maintenance	41,583,904	53,982,947	12,399,044
6	Contingency	500,000	-	(500,000)
7	Subtotal - Direct Costs	65,856,296	131,430,273	65,573,978
8				
9	Backfill	43,719	79,855	36,136
10				
11	**Total - Direct Costs & Backfill**	$ 65,900,015	$ 131,510,128	$ 65,610,113

Revised Preliminary Budget



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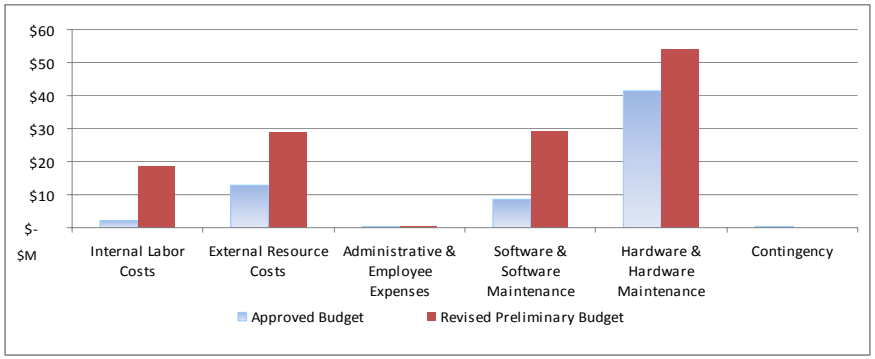


Commentary

- The IT Operations and Infrastructure budget increase is due to the extended timeline and consolidation of operational labor costs. Maintenance costs for acquired software and hardware are extended to program end date. Internal and external labor needed to support the following Nodal environments are now included within the INF budget:
  - Development, FAT, iTest, Sandbox, and site-redundant EDS environments
- The breakdown of total project expenses in the IT Operations & Infrastructure expenses is:
  - 52% Hardware & Software Purchases
  - 14% ERCOT FTE labor
  - 22% External labor & vendor spend
  - 12% Hardware & Software Maintenance

IT Operations and Infrastructure (INF)

Project Overview
The Nodal IT Operations & Infrastructure project team shall ensure mission critical infrastructure is delivered and supported as specified for the ERCOT enterprise architecture. ▪ Deliver specified hardware, database software and the integration platform software as defined by the functional requirements for each Nodal project. ▪ Meet the SLA for delivery that is consistent with the ERCOT enterprise architecture. ▪ Provide responsive service to support the successful delivery and maintenance of infrastructure systems at ERCOT ▪ Develop an IT Services catalogue for the services provided to the Nodal program. ▪ Establish and operate to the service level agreements for respective systems. ▪ Provide monitoring and reporting as specified in the support agreements for hardware systems. ▪ Provide data center resource capacity (power, space and cooling) to satisfy approved, forecasted infrastructure demands. ▪ Provide transition plans to ensure delivery of Nodal infrastructure to ERCOT staff as early as possible to ensure readiness for market go-live. ▪ Provide release management services to control the deployment of software and systems to controlled environments (Added after Nov 2006 charter) ▪ Provide Market Participant Identity Management System to enable the management and provisioning of user accounts in the market facing system

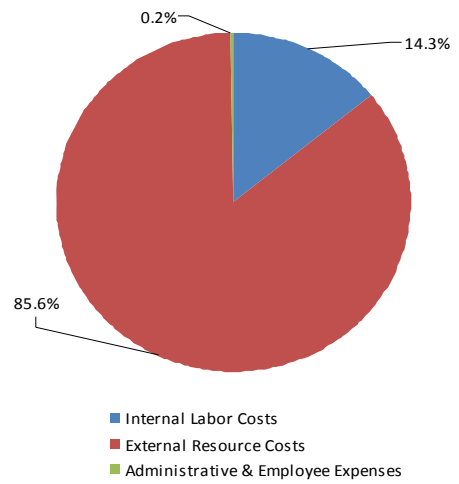
Cost Overview	
Internal Labor	Nodal IT Operations & Infrastructure project uses primarily ERCOT staff for the build and delivery of infrastructure services. Starting in October 2008, Nodal IT Operations & Infrastructure budget incorporated the labor to support all database, storage, operating system, network, desktop support, and application operation administration services delivered by the IT department in order to reduce administrative tasks to track the basic operation of each project's environment. INF budget also contains the release management team supporting and operating the tools necessary to install systems to the appropriate environments for the Nodal program.
External Labor	Nodal IT Operations & Infrastructure uses contract labor to provide services described above in internal labor. The current budget for Infrastructure uses 73% internal labor and 27% external labor based on the effort planned from Nov 2008 through Dec 2010.
Software and Software Maintenance	Nodal IT Operations & Infrastructure project includes the cost for the license and maintenance of all nodal program hardware including IBM P and X series hardware, network and storage systems. The project also includes the purchase and maintenance of enterprise software utilized across multiple nodal projects including, AIX, Linux, Windows, VMware, Oracle, TIBCO, OpenView, all desktop software (Microsoft Office Suites and Operating Systems), GoldenGate replication software, GPFS, Net IQ, Confluence, Jreports, Compilers, Time Machine, Policy Server, Citrix, Storage Foundation, NetBackup, Veritas, ITKO testing tools, Tripwire, and management software for firewalls and SAN equipment.

MARKET INFORMATION SYSTEMS (MIS)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 779,151	$ 863,109	$ 83,957
2	External Resource Costs	8,159,180	5,167,864	(2,991,316)
3	Administrative & Employee Expenses	12,000	9,752	(2,248)
4	Software & Software Maintenance	305,000	-	(305,000)
5	Hardware & Hardware Maintenance	-	-	-
6	Contingency	-	-	-
7	Subtotal - Direct Costs	9,255,331	6,040,725	(3,214,607)
8				
9	Backfill	-	-	-
10				
11	**Total - Direct Costs & Backfill**	$ 9,255,331	$ 6,040,725	$ (3,214,607)

Revised Preliminary Budget



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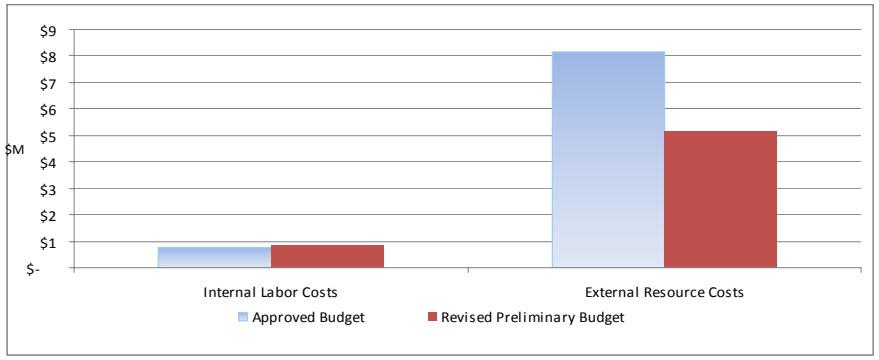


Commentary

- The MIS project shows a budget decrease due to a change in the organization of some Nodal projects and deliverables. Some deliverables previously included in the MIS budget have been transitioned to other projects
- The remaining scope of the MIS project includes not only development of the MIS web portal, but also completion of the Current Day Reports (CDR)
- Current Day Reports are defined as reports or extracts with a latency, frequency, and/or performance requirement that cannot be met by the EDW environment (< 8 hrs.)

Market Information System (MIS)

Project Overview
The project charter states that the purpose of the MIS (Market Information System) web portal is to provide a single point of access for market participants, PUC, and ERCOT staff to Nodal market information, and to ERCOT market-facing applications. The MIS will provide access to reports, extracts, applications, and any other content required by protocols in a central location.

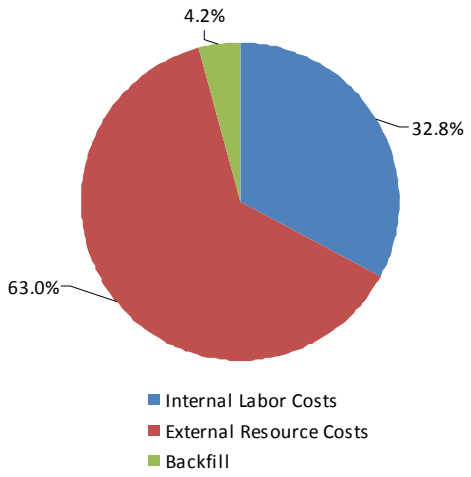
Cost Overview	
Internal Labor	The internal labor on the MIS team consists of developers from the Web and Data Services team as well as a business analyst on loan from the Zonal Program Office. The developers are working on sub-application components of the portal such as Search, Notice Builder, and View By Protocol. The business analyst is continuing to work on requirement updates and build-specific documents.
External Labor	The external resources on the MIS project are in charge of setting up the environments for the MIS portal and doing the core portal design and development. Development includes the configuring the software to create the landing pages, portlets, and individual links as well setting up the supporting components such as JBOSS, LDAP, proxies, etc. This work was staffed with vendors due to the home team being saturated with zonal development and support.
Software and Software Maintenance	The MIS project had two major software expenditures. Due to the nature of the TIBCO licensing at ERCOT, the project's entire software budget was transferred to the Infrastructure project. In return, the MIS received all necessary components of TIBCO as well as the Jinfonet JReports software used on the portal.

ENTERPRISE DATA WAREHOUSE (EDW)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 1,340,578	$ 2,214,886	$ 874,308
2	External Resource Costs	2,313,243	4,255,342	1,942,098
3	Administrative & Employee Expenses	-	18	18
4	Software & Software Maintenance	-	-	-
5	Hardware & Hardware Maintenance	-	-	-
6	Contingency		-	-
7	Subtotal - Direct Costs	3,653,822	6,470,246	2,816,424
8				
9	Backfill	1,748	285,975	284,227
10				
11	**Total - Direct Costs & Backfill**	$ 3,655,570	$ 6,756,221	$ 3,100,652

Revised Preliminary Budget



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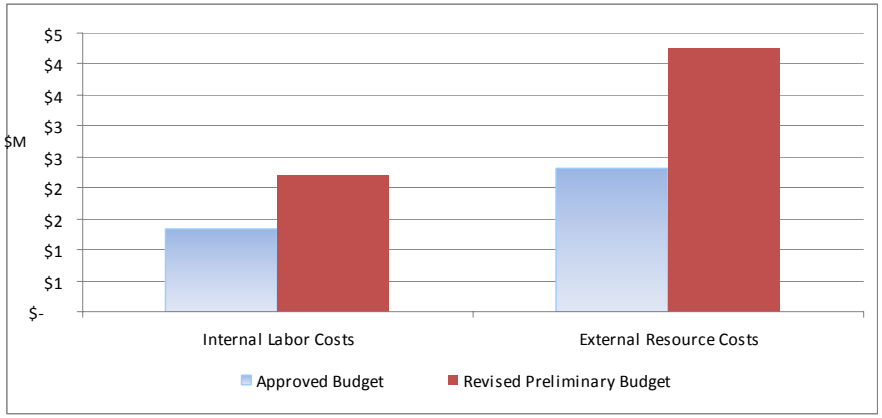


Commentary

- The EDW project shows a budget increase due to NPRR102 which doubled the scope of EDW extracts and reports
- The EDW project is heavily staffed with ERCOT internal resources
- The EDW project utilizes primarily contingent labor to develop and document reports and extracts of market data. This labor is also used for development associated with replication of specified market data for retention, reporting, and analysis as defined by protocols.
- The EDW project also utilizes contingent labor to backfill regular operational activities allowing ERCOT staff to work on nodal in preparation for go-live

EDW Reports are defined as reports or extracts with a latency, frequency, and/or performance requirement greater than 8 hrs.

Enterprise Data Warehouse (EDW)

Project Overview
The charter for ERCOT Enterprise Data Warehouse team (EDW) states their scope to "Ensure Enterprise Information Services (EIS) provides an integrated system that meets Nodal Protocol requirements." This will be accomplished by helping MPs, PUCT, IMM, FERC, ERCOT, and the public by: ▪ Providing capability to collect and access historic data; Providing a platform for performing data analysis; ▪ Providing the capability to collect data from operational systems for retention, reporting and analysis; ▪ Providing predefined data extracts; and ▪ Providing the data library for all EIS data products

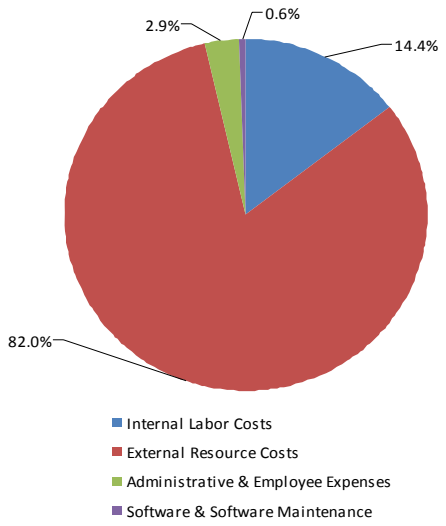
Cost Overview	
Internal Labor	ERCOT employees involved in the EDW project will be engaged at various levels: Development associated with data replication for specified core project systems as identified by protocol requirements; development of reports and extracts as identified by protocol requirements; testing and support of replication, reports, and extracts; development and documentation of monitoring solutions for EIS systems, documentation of all development, processes, procedures, end-to-end service level agreements (SLAs), systems controls showing compliance with ERCOT internal control standards, recommended staffing plans to accomplish on-going EIS activities at ERCOT post-go-live; software documentation that includes installation and maintenance guides; standards to control access to EIS systems; standards and SLAs for posting to EIS systems; standards for retention of data in EIS systems and disaster recovery of EIS systems. EDW project management and all but one lead role are staffed with Enterprise Information Services (EIS) ERCOT FTEs.
External Labor	The contingent labor associated with the EDW project is mainly focused on development, test, and documentation activities required to complete the EDW deliverables. Most of the contingent labor has expertise in these areas and provides a combined set of skills and experience to augment current EIS staff assigned to the EDW project. There are three roles on the EDW team filled by contingent labor: Database Administrator, Database Developer, and Database Analyst. While these roles exist on the EIS staff, additional resources are necessary to provide deliverables for EDW in the timeframe required. Two contingent labor resources are used to provide support to on-going zonal operational activities on a 24x7 on-call rotation. It is anticipated that up to two resources will be required for this purpose through nodal go-live and through the six month stabilization period following. There are no software vendors associated with the EDW project.
Software and Software Maintenance	There is no application software associated with the EDW project.

MARKET ENGAGEMENT AND READINESS (MER) - TRAINING

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 887,279	$ 1,705,278	$ 817,999
2	External Resource Costs	7,789,147	9,706,149	1,917,002
3	Administrative & Employee Expenses	254,056	347,280	93,223
4	Software & Software Maintenance	199,120	76,152	(122,968)
5	Hardware & Hardware Maintenance	7,900	-	(7,900)
6	Contingency	-	-	-
7	Subtotal - Direct Costs	9,137,503	11,834,859	2,697,356
8				
9	Backfill	-	-	-
10				
11	**Total - Direct Costs & Backfill**	$ 9,137,503	$ 11,834,859	$ 2,697,356

Revised Preliminary Budget



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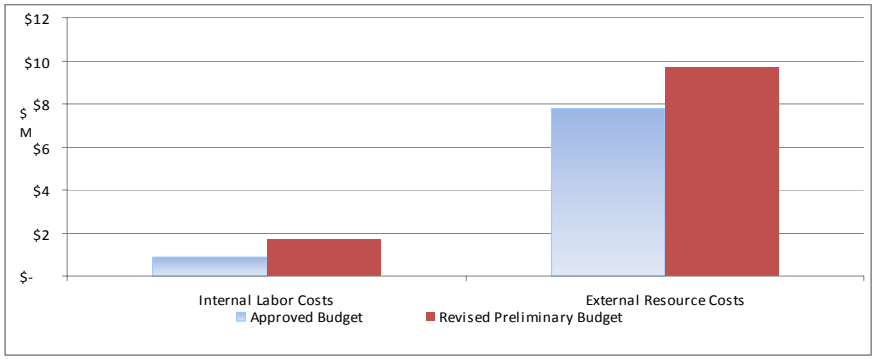


Commentary

- This project includes funding to develop and deliver market training to ERCOT market participants
- The MER-Training funding increase results primarily from extended program timeline and the addition of several training development and deployment activities for internally developed ERCOT market participant user interfaces (e.g., MMS, OS)

Market Engagement and Readiness (MER) Training

Project Overview
Market Engagement and Readiness – Training: Preparing market participants for the nodal market through training is an integral part of the transition to the nodal market. This project is charged with development and delivery of nodal market training to market participants and ERCOT staff to parallel the development of the market rules and the systems to be used for system operations and market operations. The training is primarily based on the ERCOT nodal market rules or protocols but also includes training on market participant user interfaces. ERCOT does not currently have a formal market participant training group and the training delivered as part of this project is expected to continue after the completion of the transition to the nodal market.

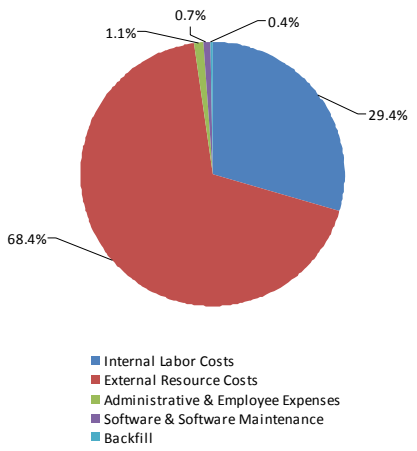
Cost Overview	
Internal Labor	Internal ERCOT resources have been used in all aspects of this project. The project is managed by an internal ERCOT resource. Subject matter experts from various ERCOT business areas are consulted in the development of training material. They also provide critical reviews of training materials prior to approval for training delivery. ERCOT personnel are also engaged in the delivery of the training to market participants as available.
External Labor	External resources were engaged to develop and deliver market participant training as ERCOT did not have a formal department charged with this task prior to the nodal market transition. The project has engaged external subject matter experts in the development and delivery of training. The project has also engaged learning specialists, instructional designers and graphics artists from companies with experience in the development and delivery of training using proved adult education principles.
Software and Software Maintenance	WBT Manager: This is a Learning Management System (LMS) used to register students as well as to deliver web-based training. The application is hosted at an off-site vendor (On-Line Training Corporation)

ERCOT READINESS AND TRANSITION (ERT)

Approved vs. Revised Preliminary Budget

Line	Expense Category	Approved Budget	Revised Preliminary Budget	Variance
1	Internal Labor Costs	$ 441,360	$ 5,540,171	$ 5,098,811
2	External Resource Costs	4,586,232	12,865,252	8,279,019
3	Administrative & Employee Expenses	1,535,775	198,604	(1,337,171)
4	Software & Software Maintenance	195,000	135,813	(59,187)
5	Hardware & Hardware Maintenance	-	-	-
6	Contingency	-	-	-
7	Subtotal - Direct Costs	6,758,367	18,739,840	11,981,473
8				
9	Backfill	9,396	77,987	68,591
10				
11	**Total - Direct Costs & Backfill**	$ 6,767,763	$ 18,817,827	$ 12,050,064

Revised Preliminary Budget



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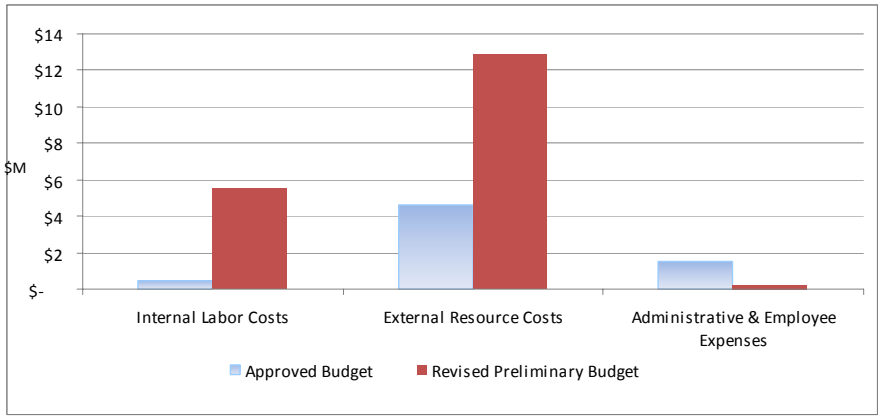

Commentary

- The following additions to the revised ERT budget drove the increase in the internal labor:
  - Funding for ERCOT internal training on impacted business processes and skills required for execution of nodal market after implementation
  - Resources and backfill costs necessary to ensure NERC compliance for all nodal processes and procedures*
  - Resources to support system operations' nodal training development and deployment requirements
  - ERCOT SMEs to support business process & procedure definition, mapping, review and approval (e.g., data architects to support sec 17 updates, project SMEs for business & system updates)
- The majority of the project management, facilitation, and support resources required to support ERCOT resources in delivering process, procedures, training or metrics activities had been removed from the ERT budget. The ERT external resource costs increases were driven by additional external resources to support key activities such as business process definition and redesign, NERC compliance, metrics readiness advisor, client relations staff augmentation, nodal process SMEs and technical writers.

ERCOT Readiness and Transition (ERT)

Project Overview
The charter for ERCOT Readiness and Transition (ERT) states their scope to be “Preparation of the ERCOT organization and final verification of all parties’ readiness to operate under the Nodal Protocols in live operations.” This will be accomplished through definition of nodal processes and procedures; training of employees in nodal processes, procedures and enabling systems as appropriate for their roles and responsibilities in the new organization; and tracking of metrics as approved by TAC that were intended to ensure ERCOT’s readiness to operate the nodal market.

Cost Overview	
Internal Labor	ERCOT employees involved in the ERT project will be engaged at various levels: review of high level processes, assignment of resources within their group to document new or update existing lower level processes; write new or update existing procedures; support mapping of procedures to process, requirements and protocols to ensure coverage; identify training requirements based on roles and responsibilities required to operate the nodal market; attend training to meet training requirements; and provide data for metrics tracking.
External Labor	The contingent labor associated with the ERT project is mainly focused on project management and facilitation of the activities required to complete the ERT deliverables. Most of the contingent labor has energy expertise in these areas and provides a combined set of skills and experience that was not available in ERCOT. For example, the business process lead has led efforts to define and document processes for another ISO and has also worked in the energy industry as an operator and is NERC certified. Where energy expertise is not required is when activities require experience in a support discipline (e.g., requirements definitions and traceability to ensure integration of the protocols, processes and requirements). This expertise was not available in ERCOT.
Software and Software Maintenance	There is no application software associated with the ERT project

Exhibit B

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
1	**Nodal IPS**	**CRR - Congestion Revenue Rights**	**33%**	**Mon 6/2/08**	**Fri 4/2/10**
1	CRR	CRR Replan Start	100%	Mon 6/2/08	Mon 6/2/08
2	**CRR**	**Milestones**	**100%**	**Mon 6/2/08**	**Fri 6/13/08**
3	**CRR**	**Program Level Milestones**	**100%**	**Mon 6/2/08**	**Fri 6/13/08**
4	CRR	Requirements approved by TPTF	100%	Mon 6/2/08	Mon 6/2/08
5	CRR	CSD submitted to TPTF	100%	Mon 6/2/08	Mon 6/2/08
6	CRR	CSD approved by TPTF	100%	Mon 6/2/08	Mon 6/2/08
7	CRR	Phase 2 SOW Complete	100%	Mon 6/2/08	Mon 6/2/08
8	CRR	Detailed Design made available to TPTF	100%	Mon 6/2/08	Mon 6/2/08
9	CRR	Test Cases to iTEST for review	100%	Mon 6/2/08	Mon 6/2/08
10	CRR	Base product installed (iHEDGE early release)	100%	Mon 6/2/08	Mon 6/2/08
11	CRR	FAT start	100%	Mon 6/2/08	Mon 6/2/08
12	CRR	CRR FAT End	100%	Fri 6/13/08	Fri 6/13/08
13	**CRR**	**Development**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
14	**CRR**	**Business Process development**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
15	**CRR**	**FIRST GROUP OF PROCEDURES**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
16	CRR	Write System Initialization Process Procedures (4.1.1)	100%	Mon 6/2/08	Mon 6/2/08
17	CRR	Write Set Up Time of Use & Calendar Period Process Procedures (4.2.2)	100%	Mon 6/2/08	Mon 6/2/08
18	CRR	Write Set-up the CRR Market Process Procedures (4.2.3)	100%	Mon 6/2/08	Mon 6/2/08
19	CRR	Review First Group of Procedures	100%	Mon 6/2/08	Mon 6/2/08
20	CRR	Update procedures with comments	100%	Mon 6/2/08	Mon 6/2/08
21	**CRR**	**SECOND GROUP OF PROCEDURES**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
22	CRR	Write Run the PCRR Allocation Process Procedures	100%	Mon 6/2/08	Mon 6/2/08
23	CRR	Write Run MCFRI Allocation Process Procedures	100%	Mon 6/2/08	Mon 6/2/08
24	CRR	Write Evaluate Need for True-up Process Procedures	100%	Mon 6/2/08	Mon 6/2/08
25	CRR	Write Run True-up PCRR Allocation Process Procedures	100%	Mon 6/2/08	Mon 6/2/08
26	CRR	Write Run True-up MCFRI Allocation Process Procedures	100%	Mon 6/2/08	Mon 6/2/08
27	CRR	Review Second Group of Procedures	100%	Mon 6/2/08	Mon 6/2/08
28	CRR	Update procedures with comments	100%	Mon 6/2/08	Mon 6/2/08
29	**CRR**	**Stabilization (Standalone)**	**99%**	**Mon 6/2/08**	**Thu 1/29/09**
30	**CRR**	**IT Systems**	**99%**	**Mon 6/2/08**	**Thu 1/29/09**
31	**CRR**	**Pre FAT (at Nexant site)**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
32	CRR	Pre FAT Round 0 - Chandler, AZ	100%	Mon 6/2/08	Mon 6/2/08
33	CRR	Update & modify Software	100%	Mon 6/2/08	Mon 6/2/08
34	CRR	Pre FAT kick off - Chandler, AZ	100%	Mon 6/2/08	Mon 6/2/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
35	CRR	Pre FAT Round 1 - Chandler, AZ	100%	Mon 6/2/08	Mon 6/2/08
36	CRR	Update & modify Software	100%	Mon 6/2/08	Mon 6/2/08
37	CRR	Pre FAT Round 2 - San Francisco, CA	100%	Mon 6/2/08	Mon 6/2/08
38	CRR	Software modifications for delivery	100%	Mon 6/2/08	Mon 6/2/08
39	CRR	Pre FAT Round 3 - Chandler, AZ	100%	Mon 6/2/08	Mon 6/2/08
40	CRR	Deliver test results to ERCOT (including Defect list)	100%	Mon 6/2/08	Mon 6/2/08
41	CRR	ERCOT Review & Approval	100%	Mon 6/2/08	Mon 6/2/08
42	CRR	Pre-FAT Migration Control Document Draft/Release Notes	100%	Mon 6/2/08	Mon 6/2/08
43	CRR	Pre FAT (at Nexant site) sign-off	100%	Mon 6/2/08	Mon 6/2/08
44	**CRR**	**FAT (at ERCOT site)**	**100%**	**Mon 6/2/08**	**Tue 8/5/08**
45	CRR	Hardware Preparation	100%	Mon 6/2/08	Mon 6/2/08
46	CRR	Access Configuration	100%	Mon 6/2/08	Mon 6/2/08
47	CRR	Delivery	100%	Mon 6/2/08	Mon 6/2/08
48	CRR	Product Build	100%	Mon 6/2/08	Mon 6/2/08
49	CRR	Smoke Test	100%	Mon 6/2/08	Mon 6/2/08
50	**CRR**	**FAT S1 (Group 1 - 4)**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
51	CRR	Product Testing	100%	Mon 6/2/08	Mon 6/2/08
52	CRR	Defect Resolution	100%	Mon 6/2/08	Mon 6/2/08
53	CRR	Migration Control Document/Release Notes	100%	Mon 6/2/08	Mon 6/2/08
54	CRR	Release Delivery for FAT S1 exit	100%	Mon 6/2/08	Mon 6/2/08
55	CRR	Product build	100%	Mon 6/2/08	Mon 6/2/08
56	CRR	Regression	100%	Mon 6/2/08	Mon 6/2/08
57	CRR	Defect Validation	100%	Mon 6/2/08	Mon 6/2/08
58	CRR	Defect Resolution	100%	Mon 6/2/08	Mon 6/2/08
59	CRR	FAT exit release delivery	100%	Mon 6/2/08	Mon 6/2/08
60	CRR	FAT Exit release migration	100%	Mon 6/2/08	Mon 6/2/08
61	CRR	FAT Exit release defect validation	100%	Mon 6/2/08	Mon 6/2/08
62	CRR	FAT Exit release regression	100%	Mon 6/2/08	Mon 6/2/08
63	CRR	FAT S1 (At ERCOT Site) sign-off	100%	Mon 6/2/08	Mon 6/2/08
64	**CRR**	**FAT S2 (Group 5) (Integration Part 1 MS-7)(Functionality MS-4a, 4b)**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
65	CRR	Security Test	100%	Mon 6/2/08	Mon 6/2/08
66	CRR	Deliver FAT S2 Enhancement Test Scripts to Nexant	100%	Mon 6/2/08	Mon 6/2/08
67	CRR	Review of Test Scripts by Nexant	100%	Mon 6/2/08	Mon 6/2/08
68	CRR	Delivery	100%	Mon 6/2/08	Mon 6/2/08
69	CRR	Demo of S2 Enhancements	100%	Mon 6/2/08	Mon 6/2/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
70	CRR	Release Migration + Smoke	100%	Mon 6/2/08	Mon 6/2/08
71	CRR	Regression Testing	100%	Mon 6/2/08	Mon 6/2/08
72	CRR	Release functionality Testing	100%	Mon 6/2/08	Mon 6/2/08
73	CRR	Defect Resolution	100%	Mon 6/2/08	Mon 6/2/08
74	CRR	FAT S2 exit release with defect fixes	100%	Mon 6/2/08	Mon 6/2/08
75	CRR	FAT S2 exit release regression	100%	Mon 6/2/08	Mon 6/2/08
76	CRR	FAT S2 exit release defect validation	100%	Mon 6/2/08	Mon 6/2/08
77	CRR	FAT S2 (At ERCOT Site) sign-off	100%	Mon 6/2/08	Mon 6/2/08
78	**CRR**	**FAT S3 (Integration Part 2 + MS-7a) Security, Optimization Performance**	**100%**	**Mon 6/2/08**	**Tue 8/5/08**
79	CRR	Deliver Outline of Functional Test Scripts	100%	Mon 6/2/08	Mon 6/2/08
80	CRR	Deliver FAT S3 Enhancement Test Scripts to Nexant	100%	Mon 6/2/08	Mon 6/2/08
81	CRR	Review of Test Scripts by Nexant	100%	Mon 6/2/08	Wed 6/4/08
82	CRR	Delivery S3 Functionality + Integration Part 2	100%	Mon 6/2/08	Mon 6/2/08
83	CRR	Demo of S3 Enhancements	100%	Mon 6/2/08	Mon 6/2/08
84	CRR	Release Migration + Smoke	100%	Mon 6/2/08	Tue 6/3/08
85	CRR	Regression Testing	100%	Mon 6/2/08	Mon 6/2/08
86	CRR	Release Functionality Testing	100%	Mon 6/2/08	Mon 6/2/08
87	CRR	Release Defect Resolution	100%	Mon 6/2/08	Mon 6/2/08
88	CRR	FAT S3 defect fix release delivery	100%	Mon 6/2/08	Mon 6/2/08
89	CRR	FAT S3 defect fix release build & regression	100%	Mon 6/2/08	Thu 6/5/08
90	CRR	FAT S3 defect fix release defect validation	100%	Mon 6/2/08	Thu 6/5/08
91	CRR	FAT S3 defect resolution	100%	Mon 6/2/08	Fri 6/6/08
92	CRR	Defect Patch 1.04 #1446	100%	Mon 6/2/08	Mon 6/2/08
93	CRR	Defect Patch Build	100%	Mon 6/2/08	Mon 6/2/08
94	CRR	Defect Patch Regression	100%	Mon 6/2/08	Wed 6/4/08
95	CRR	Defect Patch Validation	100%	Mon 6/2/08	Wed 6/4/08
96	CRR	Optimization Performance Testing	100%	Mon 6/2/08	Tue 8/5/08
97	CRR	Performance testing Defect Resolution	100%	Mon 6/2/08	Wed 6/4/08
98	CRR	FAT S3 exit build delivery	100%	Thu 6/5/08	Thu 6/5/08
99	CRR	FAT S3 exit build & regression	100%	Fri 6/6/08	Tue 6/10/08
100	CRR	FAT S3 exit build defect validation	100%	Wed 6/11/08	Fri 6/13/08
101	CRR	FAT S3 clean up build delivery (if needed)	100%	Fri 6/13/08	Fri 6/13/08
102	CRR	FAT S3 clean up build & regression (if needed)	100%	Mon 6/16/08	Fri 6/20/08
103	CRR	FAT S3 clean up build defect validation (if needed)	100%	Mon 6/23/08	Wed 6/25/08
104	CRR	Deliver FAT S3 (At ERCOT Site) sign-off to EDW	100%	Fri 6/13/08	Fri 6/13/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
106	CRR	Deliver CRR FAT S3 to iTEST	100%	Fri 6/13/08	Fri 6/13/08
108	**CRR**	**CRR4**	**99%**	**Fri 8/29/08**	**Thu 1/29/09**
109	CRR	Test plan update	100%	Fri 8/29/08	Fri 8/29/08
110	CRR	Test plan approval	100%	Tue 9/2/08	Tue 9/2/08
111	CRR	Test scenario & case development	100%	Wed 9/3/08	Thu 9/11/08
112	CRR	Test scenario & case approval	100%	Thu 9/11/08	Tue 9/16/08
113	CRR	Test script development	100%	Wed 9/17/08	Thu 9/18/08
114	CRR	CRR Test script review & approval	100%	Thu 9/18/08	Thu 9/18/08
115	CRR	CRR4 Vendor Delivery to ERCOT	100%	Thu 9/18/08	Thu 9/18/08
116	CRR	Vendor Rework & Re-delivery	100%	Fri 9/19/08	Tue 9/23/08
117	CRR	CRR 4 Build at ERCOT	100%	Wed 9/24/08	Thu 9/25/08
118	CRR	CRR4 Functionality Testing	100%	Fri 9/26/08	Thu 10/16/08
119	CRR	CRR4 Nexant Release 1.07 Patch Received	100%	Fri 10/31/08	Fri 11/7/08
120	CRR	CRR4 Regression Testing	100%	Mon 11/10/08	Wed 11/19/08
121	CRR	Deliver CRR3 with Statement Tables to iTEST	100%	Wed 11/19/08	Wed 11/19/08
123	CRR	CRR Patch 1.08 Delivered	100%	Thu 11/20/08	Thu 12/4/08
124	CRR	Intallation, Regression, & Smoke Test Patch 1.08	100%	Fri 12/5/08	Thu 12/18/08
126	CRR	CRR4 Sign-off @ ERCOT	100%	Fri 12/19/08	Fri 12/19/08
127	CRR	Deliver CRR4 to iTEST	0%	Thu 1/29/09	Thu 1/29/09
129	**CRR**	**Interfaces**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
131	CRR	Receive Network Model from NMMS	100%	Mon 6/2/08	Mon 6/2/08
132	CRR	Validate REG -> CRR (List of CRR Account Holders)	100%	Mon 6/2/08	Mon 6/2/08
133	CRR	Validate CMM --> CRR (ACL, Aproval/Denial of Bilateral transactions)	100%	Mon 6/2/08	Mon 6/2/08
134	CRR	Validate CRR --> CMM (CRR Inventory, CRR Credit Limit, Bilateral CRR Transaction Approval Request)	100%	Mon 6/2/08	Mon 6/2/08
135	CRR	Validate CRR --> Settlements (Market Transactions, CRR Ownership, Flowgates)	100%	Mon 6/2/08	Mon 6/2/08
136	CRR	Validate Setllements --> CRR (CRR Payment Confirmation)	100%	Mon 6/2/08	Mon 6/2/08
137	CRR	Validate CRR --> MMS (DAM) (CRR Ownership)	100%	Mon 6/2/08	Mon 6/2/08
138	CRR	Validate CRR --> EDW (Replication of CRR Market Data)	100%	Mon 6/2/08	Mon 6/2/08
139	CRR	Validate CRR --> MIS (CRR Public Data & Reports)	100%	Mon 6/2/08	Mon 6/2/08
140	**CRR**	**Stabilization (Integrated)**	**8%**	**Mon 6/2/08**	**Fri 1/29/10**
141	**CRR**	**Integration Testing Support**	**8%**	**Wed 11/19/08**	**Fri 1/29/10**
142	CRR	Business Process Integration Testing Support	100%	Wed 11/19/08	Wed 11/19/08
143	CRR	Integration Testing Defect Management Support	8%	Thu 11/20/08	Fri 1/29/10
144	CRR	ERCOT integrated test environment hardware	100%	Mon 6/2/08	Mon 6/2/08
145	**CRR**	**Transition Activities**	**32%**	**Mon 6/2/08**	**Fri 4/2/10**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
146	**CRR**	**TCR to CRR Transition Plan**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
147	CRR	Develop draft for ERCOT internal (Nodal, TCR, CMM)	100%	Mon 6/2/08	Mon 6/2/08
148	CRR	Present to WMS	100%	Mon 6/2/08	Mon 6/2/08
149	CRR	Present to TPTF	100%	Mon 6/2/08	Mon 6/2/08
150	CRR	CRR Present to TAC - final sign off	100%	Mon 6/2/08	Mon 6/2/08
151	**CRR**	**Revise: TCR to CRR Transition Plan**	**91%**	**Mon 8/4/08**	**Thu 4/2/09**
152	CRR	Revise Transtion Plan	100%	Mon 8/4/08	Mon 9/15/08
153	CRR	Present to WMS	100%	Wed 10/22/08	Wed 10/22/08
154	CRR	Present to TPTF	100%	Mon 10/27/08	Mon 10/27/08
155	CRR	Present Updates to WMS for Approval	0%	Mon 2/16/09	Mon 2/16/09
156	CRR	Present Updates to TPTF for Approval	0%	Mon 3/9/09	Mon 3/9/09
157	CRR	Present to TAC - final sign off	0%	Thu 4/2/09	Thu 4/2/09
158	**CRR**	**Project to Home Team**	**0%**	**Mon 2/1/10**	**Fri 4/2/10**
159	**CRR**	**Project Artifacts**	**0%**	**Mon 2/1/10**	**Fri 3/5/10**
160	CRR	Update As Built documentation	0%	Mon 2/1/10	Fri 2/26/10
161	CRR	Bundle artifacts	0%	Mon 3/1/10	Fri 3/5/10
162	**CRR**	**Documentation review & hand-off**	**0%**	**Mon 3/8/10**	**Tue 3/9/10**
163	CRR	Business	0%	Mon 3/8/10	Mon 3/8/10
164	CRR	IT (development, installation & operational support)	0%	Mon 3/8/10	Tue 3/9/10
165	**CRR**	**Disposition of hardware**	**0%**	**Mon 3/8/10**	**Wed 3/10/10**
166	CRR	DEV	0%	Mon 3/8/10	Wed 3/10/10
167	CRR	FAT	0%	Mon 3/8/10	Wed 3/10/10
168	CRR	ITEST	0%	Mon 3/8/10	Wed 3/10/10
169	CRR	EDS	0%	Mon 3/8/10	Wed 3/10/10
170	CRR	Resource Transfer or Roll-off (employees & contractors)	0%	Mon 2/1/10	Fri 2/5/10
171	CRR	Close-out budget	0%	Mon 3/1/10	Fri 3/26/10
172	CRR	Data scrub	0%	Mon 3/29/10	Fri 4/2/10
173	**CRR**	**CRR NPRR 140**	**0%**	**Tue 2/17/09**	**Thu 2/19/09**
174	CRR	Presented to PRS	0%	Tue 2/17/09	Tue 2/17/09
175	CRR	Presented to TAC	0%	Wed 2/18/09	Wed 2/18/09
176	CRR	Presented to BOD	0%	Thu 2/19/09	Thu 2/19/09
177	CRR	Final Approval - CRR NPRR 140	0%	Thu 2/19/09	Thu 2/19/09
178	**CRR**	**CRR in MOTE**	**0%**	**Mon 8/17/09**	**Mon 9/14/09**
179	CRR	Test CRR in MOTE	0%	Mon 8/17/09	Fri 8/28/09
180	CRR	Update CRR documentation	0%	Mon 8/31/09	Mon 9/14/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
181	CRR	CRR Enhancement #TBD: CRR System Upgrade (jBoss 4.3, Java 1.7)	0%	Mon 6/15/09	Mon 8/31/09
182	**CRR**	**CRR One Line Diagram**	**0%**	**Mon 3/2/09**	**Mon 6/29/09**
183	CRR	Provide On-Call Support to EMS	0%	Mon 3/2/09	Mon 6/29/09
184	CRR	CRR One Line Diagram Test Scripts Writen	0%	Mon 3/2/09	Fri 3/27/09
185	CRR	CRR Testing of One Line Diagram Complete	0%	Mon 3/2/09	Fri 4/24/09
186	CRR	CRR One Line Diagram Accessible via MIS	0%	Mon 5/4/09	Mon 6/29/09
187	CRR	CRR Project End	0%	Fri 4/2/10	Fri 4/2/10
2	**Nodal IPS**	**EMS - Energy Management System**	**57%**	**Mon 6/2/08**	**Tue 1/19/10**
1	**EMS**	**EMS Program Schedule**	**51%**	**Mon 6/2/08**	**Tue 1/19/10**
2	EMS	EMS Re-plan Start (2)	100%	Mon 6/2/08	Mon 6/2/08
3	**EMS**	**Interfaces & Dependancies**	**0%**	**Mon 6/2/08**	**Fri 3/6/09**
4	**EMS**	**Receivables**	**0%**	**Mon 6/2/08**	**Fri 3/6/09**
6	EMS	Receive NMMS (Model)-> EMS from NMMS	100%	Mon 7/28/08	Mon 7/28/08
8	EMS	Receive NMMS -> EMS (OE) w EIP test from NMMS	100%	Mon 7/28/08	Mon 7/28/08
10	EMS	Receive MMS<->EMS Interface test from MMS	0%	Fri 2/20/09	Fri 2/20/09
12	EMS	Receive OS<->EMS Interface test from OS	100%	Mon 6/2/08	Mon 6/2/08
14	EMS	Receive Synchronized Model (V1.21 schema & data set) NMMS->EMS from NMMS	100%	Wed 12/10/08	Wed 12/10/08
16	EMS	Receive Validated Model (V1.21 schema & data set) From NMMS	0%	Thu 1/8/09	Thu 1/8/09
18	EMS	Receive Validated Model (with Final RARF Data V1.21 schema & data set) from NMMS	0%	Fri 3/6/09	Fri 3/6/09
19	**EMS**	**Deliveries**	**0%**	**Fri 11/14/08**	**Mon 2/23/09**
20	EMS	Deliver EMS-> CDR 3C interface(CDR001,EIP027) to CDR	100%	Fri 11/14/08	Fri 11/14/08
22	EMS	Deliver EMS-> EDW 3 (replication & reports) to EDW	0%	Fri 12/19/08	Fri 12/19/08
25	EMS	Deliver EMS->EDW Release 4 (section 8 reports) to EDW	0%	Mon 2/23/09	Mon 2/23/09
27	EMS	Deliver EMS->Corrected data for Total Regulation Report to EDW	0%	Fri 12/19/08	Fri 12/19/08
29	**EMS**	**IMPLEMENTATION & RELEASE (FAT) TESTING**	**87%**	**Thu 6/19/08**	**Mon 4/6/09**
30	**EMS**	**EMS Release 5**	**100%**	**Thu 6/19/08**	**Fri 12/19/08**
31	**EMS**	**EMS Release 5.1.5.X (EMS 5 OE/VSS)**	**100%**	**Thu 6/19/08**	**Fri 11/14/08**
32	**EMS**	**AREVA Development**	**100%**	**Tue 7/8/08**	**Wed 10/29/08**
33	EMS	Develop OE	100%	Mon 9/8/08	Mon 9/8/08
34	EMS	Develop VSS	100%	Mon 9/8/08	Mon 9/8/08
35	EMS	Develop Notifications - AREVA	100%	Tue 7/8/08	Mon 8/4/08
36	**EMS**	**AREVA EMS SPRs Patches**	**100%**	**Mon 7/28/08**	**Wed 10/29/08**
37	EMS	EMS SPR Patch 1	100%	Mon 7/28/08	Mon 7/28/08
38	EMS	EMS SPR Patch 2	100%	Mon 8/25/08	Mon 8/25/08
39	EMS	EMS SPR Patch 4	100%	Wed 10/29/08	Wed 10/29/08
					Wed 1/14/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
40	**EMS**	**ERCOT Development**	**100%**	**Thu 6/19/08**	**Tue 9/30/08**
41	**EMS**	**Interface release 5**	**100%**	**Mon 6/23/08**	**Thu 8/28/08**
42	EMS	CDR 3C & EDW2	100%	Tue 6/24/08	Tue 7/22/08
43	EMS	Settlements & Billing SPRs	100%	Tue 6/24/08	Tue 7/22/08
44	EMS	Weather Interface SPRs	100%	Tue 6/24/08	Tue 7/22/08
45	**EMS**	**EMS-MMS Interface refactor**	**100%**	**Tue 6/24/08**	**Thu 8/28/08**
46	EMS	Re-design the interface (DDN)	100%	Tue 6/24/08	Mon 7/7/08
47	EMS	Revise DDN for MMS comments	100%	Mon 7/7/08	Fri 8/1/08
48	EMS	Deliver Revised DDN to MMS	100%	Fri 8/1/08	Fri 8/1/08
49	EMS	Receive MMS: Received new mapping tables from EMS for EMS-MMS interface from EMS	100%	Fri 8/1/08	Fri 8/1/08
50	EMS	Implement the interface	100%	Thu 7/24/08	Thu 8/28/08
51	EMS	EMS Views/Tables/Data for CDR 3C Avaialbale in iTEST	100%	Mon 6/23/08	Mon 6/23/08
52	EMS	Total Regulation Report - corrected data present	100%	Mon 7/14/08	Mon 8/4/08
53	EMS	Notifications ERCOT	100%	Thu 6/19/08	Tue 8/12/08
54	EMS	Display updates	100%	Tue 8/5/08	Tue 9/30/08
55	**EMS**	**EMS Release 5.1.5.X (EMS 5 OE/VSS) FAT**	**100%**	**Tue 8/5/08**	**Fri 11/14/08**
56	EMS	Conduct OE FAT	100%	Tue 9/9/08	Fri 11/14/08
57	EMS	Conduct VSS FAT	100%	Tue 9/9/08	Fri 11/14/08
58	EMS	Conduct Internal Interfaces 5 FAT	100%	Fri 8/29/08	Fri 11/14/08
59	EMS	Conduct Displays FAT	100%	Thu 10/2/08	Fri 11/14/08
60	EMS	Conduct SPR Release FAT	100%	Thu 10/30/08	Fri 11/14/08
61	EMS	Conduct Notifications AREVA FAT	100%	Tue 8/5/08	Fri 9/26/08
62	EMS	Conduct Notifications ERCOT FAT	100%	Wed 8/27/08	Fri 9/26/08
63	EMS	ERCOT CDR Fix Released to iTEST (INT)	100%	Fri 10/24/08	Fri 10/24/08
65	EMS	EMS Release 5.1.5.X (EMS 5 OE/VSS) FAT Complete	100%	Fri 11/14/08	Fri 11/14/08
66	EMS	Deliver EMS 5.1.5.x (OE/VSS) to iTEST (IR3-TC2)	100%	Fri 11/14/08	Fri 11/14/08
68	**EMS**	**EMS Release 5.1.6.x (Habitat 5.6 security Patch) and Interface 6**	**100%**	**Mon 11/10/08**	**Wed 12/10/08**
69	EMS	Receive Notice of Security Patch Available (External to Nodal)	100%	Mon 11/10/08	Mon 11/10/08
70	EMS	EMS Release 5.1.6.x (Habitat 5.6 Security Patch) Install and FAT	100%	Mon 11/17/08	Wed 12/10/08
71	EMS	EMS Release 5.1.6.x (Habitat 5.6 Security Patch) FAT Complete	100%	Wed 12/10/08	Wed 12/10/08
72	EMS	Delever Release 5.1.6.x (habitat 5.6 security Patch) to iTest	100%	Wed 12/10/08	Wed 12/10/08
74	**EMS**	**EMS Release 5.1.7.x (CIM Importer)**	**100%**	**Mon 7/7/08**	**Mon 11/3/08**
75	**EMS**	**AREVA Development**	**100%**	**Wed 9/17/08**	**Fri 10/10/08**
76	EMS	Develop EMS CIM Importer 1.20 & Pre-FAT	100%	Wed 9/17/08	Fri 10/10/08
77	**EMS**	**ERCOT Development**	**100%**	**Mon 7/7/08**	**Tue 9/16/08**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
78	EMS	Iterations with NMMS to fix Schemas & populate data	100%	Mon 7/7/08	Tue 9/16/08
79	EMS	EMS Release 5.1.7.x (CIM Importer 1.20) FAT	100%	Mon 10/13/08	Fri 10/31/08
80	EMS	EMS Release 5.1.7.x (CIM Importer 1.20) FAT Complete	100%	Fri 10/31/08	Fri 10/31/08
81	EMS	Deliver Release 5.1.7.x (CIM Importer 1.20) to iTEST & NMMS	100%	Mon 11/3/08	Mon 11/3/08
84	**EMS**	**EMS Release 5.1.8.x (Habitat 5.7)**	**100%**	**Mon 9/22/08**	**Fri 12/19/08**
85	EMS	Habitat 5.7 Code Receive from AREVA	100%	Mon 9/22/08	Mon 9/22/08
86	EMS	Re-issue Security Patch w/ bug fix for Habitat 5.7	100%	Wed 12/10/08	Wed 12/10/08
87	EMS	EMS Release 5.1.8.x (Habitat 5.7) FAT	100%	Thu 12/11/08	Wed 12/17/08
88	EMS	EMS Release 5.1.8.x (Habitat 5.7) FAT Complete	100%	Fri 12/19/08	Fri 12/19/08
89	EMS	Deliver Release 5.1.8.x (Habit 5.7) to iTEST	100%	Fri 12/19/08	Fri 12/19/08
91	**EMS**	**EMS Build 6**	**77%**	**Tue 10/7/08**	**Mon 4/6/09**
92	**EMS**	**EMS 6.X Product Development (Add-Ons Approved by BoD/TPTF)**	**77%**	**Tue 10/7/08**	**Mon 4/6/09**
93	**EMS**	**EMS 6.1.1.x SIG Papers & NPRRs Implementation**	**92%**	**Mon 10/13/08**	**Mon 2/23/09**
94	**EMS**	**MAI Requirements Analysis & I/F Definition**	**100%**	**Wed 10/29/08**	**Fri 12/19/08**
95	EMS	Receive CCB Approval to Develop MAI	100%	Wed 10/29/08	Wed 10/29/08
96	EMS	Identify EMS Requirements Impacted by MAI	100%	Wed 10/29/08	Fri 12/19/08
97	**EMS**	**SIG Papers Requirements Analysis & I/F Definition (Update Requirements Docs)**	**100%**	**Mon 10/13/08**	**Fri 11/7/08**
98	EMS	Receive SIG Papers Approvel From BoD (External to Nodal)	100%	Mon 10/13/08	Mon 10/13/08
99	EMS	Identify EMS Requirements Documents Impacted by SIGs	100%	Mon 10/13/08	Fri 11/7/08
100	**EMS**	**NPRR Requirements Analysis & I/F Definition (Update Requirements Docs)**	**100%**	**Tue 10/21/08**	**Tue 12/9/08**
101	EMS	NPRRs Approved	100%	Tue 10/21/08	Tue 10/21/08
102	EMS	Identify EMS Requirements Impacted by Approved NPRRs No. 92	100%	Wed 10/22/08	Wed 10/22/08
103	EMS	Identify EMS Requirements Impacted by Approved NPRRs No. 97	100%	Wed 10/22/08	Tue 12/9/08
104	EMS	Identify EMS Requirements Impacted by Approved NPRRs No. 102	100%	Wed 10/22/08	Fri 12/5/08
105	EMS	Identify EMS Requirements Impacted by Approved NPRRs No. 113	100%	Wed 10/22/08	Fri 12/5/08
106	EMS	Identify EMS Requirements Impacted by Approved NPRRs No. 119	100%	Wed 10/22/08	Wed 10/22/08
107	EMS	Update EMS Requirements Documents as Needed	100%	Wed 12/10/08	Fri 1/9/09
108	EMS	EMS Requirements Documents Revisions Complete	100%	Fri 1/9/09	Fri 1/9/09
109	**EMS**	**Areva OTS/EMS Code Merge**	**100%**	**Mon 11/17/08**	**Wed 1/7/09**
110	EMS	Code Merge Planning	100%	Mon 11/17/08	Wed 12/10/08
111	EMS	OTS Code Merging	100%	Thu 12/11/08	Wed 1/7/09
112	**EMS**	**ERCOT SIG & NPRR Development**	**100%**	**Mon 11/10/08**	**Wed 1/7/09**
113	EMS	SIG0002 Private Use Networks	100%	Mon 11/10/08	Wed 12/10/08
114	EMS	SIG0003/9/22 CCP/Resource locations/Trans constraints	100%	Mon 11/10/08	Mon 1/5/09
115	EMS	SIG0006 Flowgate Modeling	100%	Mon 11/10/08	Mon 1/5/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
116	EMS	SIG0008-Non-modeled Generation	100%	Mon 11/10/08	Wed 12/10/08
117	EMS	SIG0020-Rounding	100%	Mon 11/10/08	Wed 12/10/08
118	EMS	SIG0011-Net Generation	100%	Mon 11/10/08	Wed 12/10/08
119	EMS	IDA 46 Net Metering (EPS Meter)	100%	Mon 11/10/08	Wed 1/7/09
120	EMS	ERCOT SIG development Complete	100%	Wed 1/7/09	Wed 1/7/09
121	EMS	NPRR 97 (1) Changes to Section 8 (EDW 3B)	100%	Wed 12/10/08	Mon 1/5/09
122	EMS	NPRR 102 (1) PUC Subst. R. 25.505(f), Publication of Resource & Load Information	100%	Mon 12/8/08	Mon 1/5/09
123	EMS	ERCOT NPRR development complete	100%	Mon 1/5/09	Mon 1/5/09
124	**EMS**	**Interface 6 (CDR) Development**	**100%**	**Mon 11/17/08**	**Fri 12/19/08**
125	EMS	CDR 4 Interface Development	100%	Mon 11/17/08	Fri 12/19/08
126	EMS	Deliver Interface 6.1.1 to CDR	100%	Fri 12/19/08	Fri 12/19/08
128	EMS	Interface 6 Complete	100%	Fri 12/19/08	Fri 12/19/08
129	**EMS**	**Interface 7 (EDW) Development**	**99%**	**Mon 1/5/09**	**Tue 1/6/09**
130	EMS	EDW 3A: Section 8 Reports	100%	Mon 1/5/09	Tue 1/6/09
131	EMS	Deliver Interface 7 to EDW	0%	Tue 1/6/09	Tue 1/6/09
133	EMS	Interface 7 Complete	0%	Tue 1/6/09	Tue 1/6/09
134	**EMS**	**EMS Release 6.1.1.X FAT (SIG & NPRRs and I/F)**	**0%**	**Thu 1/8/09**	**Mon 2/23/09**
135	EMS	Perform 6.1.1. FAT (SIGs, NPRRs 97, 102, I/F)	0%	Thu 1/8/09	Mon 2/23/09
136	EMS	EMS Release 6.1.1.x FAT Complete (SIGs, NPRRs 97, 102, I/F)	0%	Mon 2/23/09	Mon 2/23/09
137	EMS	Deliver Release 6.1.1 (SIGs and NPRRs, I/F) to iTest	0%	Mon 2/23/09	Mon 2/23/09
139	**EMS**	**EMS Release 6.1.2.X (System Maps UI)**	**55%**	**Mon 10/20/08**	**Fri 2/13/09**
140	EMS	Requirements Analysis & Definition	100%	Mon 10/20/08	Fri 10/31/08
141	EMS	System Map Development	100%	Mon 11/3/08	Mon 1/5/09
142	EMS	Market Analyst Interface (MAI)	30%	Mon 1/5/09	Fri 1/16/09
143	EMS	Market Analyst Interface (MAI) FAT	0%	Mon 1/19/09	Fri 2/13/09
144	EMS	Market Analyst Interface (MAI) FAT Complete	0%	Fri 2/13/09	Fri 2/13/09
145	EMS	Perform System Map FAT	0%	Tue 1/6/09	Mon 1/19/09
146	EMS	EMS 6.1.2.x FAT Complete	0%	Mon 1/19/09	Mon 1/19/09
147	EMS	Deliver Release 6.1.2.x (System Maps) to iTEST	0%	Mon 1/19/09	Mon 1/19/09
149	**EMS**	**EMS Release 6.1.3.X (CIM Importer w/ 1.21 Schema)**	**70%**	**Tue 10/7/08**	**Fri 2/13/09**
150	**EMS**	**EMS CIM Importer 1.21 Schema and Areva SIG0002, SIG0008**	**70%**	**Tue 10/7/08**	**Fri 2/13/09**
151	**EMS**	**Areva SIG Development**	**70%**	**Mon 11/10/08**	**Fri 2/13/09**
152	EMS	SIG0002 Private Use Networks	80%	Mon 11/10/08	Mon 1/19/09
153	EMS	SIG0008 Non Modeled Generation	70%	Mon 11/10/08	Fri 1/30/09
154	EMS	IDA 46 Net Metering (EPS Meter)	100%	Mon 11/10/08	Thu 11/20/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
155	EMS	Perform Areva SIG Release FAT	0%	Mon 2/2/09	Fri 2/13/09
156	EMS	EMS Release 6.1.3 SIG FAT Complete	0%	Fri 2/13/09	Fri 2/13/09
157	**EMS**	**CIM 1.21 Refactoring**	**72%**	**Tue 10/7/08**	**Fri 2/6/09**
158	EMS	Define CIM Data Dictionary for 1.21	100%	Tue 10/7/08	Tue 10/7/08
159	EMS	EMS CIM Importer 1.21 Refactor	100%	Wed 10/8/08	Wed 12/10/08
160	EMS	CIM Importer 1.21 Test with NMMS Data	100%	Thu 12/11/08	Fri 12/19/08
161	EMS	Perform CIM Importer 1.21 FAT	0%	Mon 1/12/09	Fri 2/6/09
162	EMS	EMS Release 6.1.3 CIM 1.21 FAT Complete	0%	Fri 2/6/09	Fri 2/6/09
163	EMS	Delever Release 6.1.3.x (CIM 121 and SIGs) to iTest	0%	Fri 2/13/09	Fri 2/13/09
165	**EMS**	**EMS Release 6.1.4 (Regression & Integration)**	**27%**	**Thu 12/11/08**	**Mon 3/16/09**
166	EMS	EMS Migration to CVS (Code Validation System)	0%	Tue 2/24/09	Mon 3/2/09
167	EMS	EMS 6.X Regression Tests	0%	Tue 3/3/09	Mon 3/16/09
168	EMS	EMS to MMS I/F development and unit test and planning	40%	Thu 12/11/08	Wed 2/4/09
169	EMS	Deliver EMS Resources for MMS to EMS Testing to MMS	0%	Wed 2/4/09	Wed 2/4/09
171	EMS	EMS 6.X Ready for Integration	0%	Mon 3/16/09	Mon 3/16/09
172	EMS	EMS Regression, Integration & Performance Tests Complete	0%	Mon 3/16/09	Mon 3/16/09
173	EMS	Deliver Integrated EMS (Final) to iTEST	0%	Mon 3/16/09	Mon 3/16/09
175	EMS	Delivery to EDS/iTEST	0%	Mon 3/16/09	Mon 3/16/09
176	**EMS**	**EMS Release 6.1.x (SPRs & Misc Code) FAT**	**0%**	**Tue 3/17/09**	**Mon 4/6/09**
177	EMS	Maintenance and Rework/Test to 6.	0%	Tue 3/17/09	Mon 4/6/09
178	EMS	Deliver Release 6.X (SPR) to iTEST (DELETE)	0%	Mon 4/6/09	Mon 4/6/09
179	**EMS**	**EMS Study Apps Performance Tests**	**83%**	**Fri 12/19/08**	**Fri 1/9/09**
180	EMS	Study Performance Test plan/procedures	100%	Fri 12/19/08	Mon 1/5/09
181	EMS	Study Server Performance Tests	100%	Tue 1/6/09	Wed 1/7/09
182	EMS	Study Peformance Test SPRs	50%	Thu 1/8/09	Fri 1/9/09
183	EMS	EMS Study Apps Performance Tests Complete	0%	Fri 1/9/09	Fri 1/9/09
184	**EMS**	**Zonal Seed SEM for Go Live to NMMS & EDS**	**0%**	**Mon 3/9/09**	**Thu 10/8/09**
185	EMS	NMMS Prepares Zonal Savecases for AREVA	0%	Mon 3/9/09	Fri 4/10/09
186	EMS	Prepare Zonal Seed for Validation SEM Go-live from AREVA	0%	Mon 4/13/09	Fri 5/8/09
187	EMS	Deliver Zonal Seed for Validation SEM Go Live to NMMS	0%	Fri 5/8/09	Fri 5/8/09
189	**EMS**	**SEM Support (NMMS Funded)**	**0%**	**Tue 7/7/09**	**Thu 10/8/09**
191	EMS	Support Data Consistency test (Stage 1)	0%	Tue 7/7/09	Tue 8/4/09
193	EMS	Support Data Consistency test (Stage 2)	0%	Tue 8/25/09	Thu 10/8/09
194	**EMS**	**EMS Project End-User Deliverable Documentation**	**19%**	**Tue 8/5/08**	**Wed 7/8/09**
195	**EMS**	**AREVA Documents**	**43%**	**Mon 11/17/08**	**Mon 4/27/09**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
196	EMS	OE Document AREVA	15%	Mon 11/17/08	Fri 2/27/09
197	EMS	VSS Document AREVA	100%	Mon 11/17/08	Wed 12/10/08
198	**EMS**	**As built documentation (AREVA)**	**46%**	**Thu 12/11/08**	**Mon 4/27/09**
199	EMS	Display Reference Guides	0%	Tue 3/17/09	Mon 4/27/09
200	EMS	Operational Guide	0%	Tue 3/17/09	Mon 4/27/09
201	EMS	Maintenance Guide	0%	Tue 3/17/09	Mon 4/27/09
202	EMS	User Guide	0%	Tue 3/17/09	Mon 4/27/09
203	**EMS**	**Update Documents for CIM Importer Model 1.21**	**73%**	**Thu 12/11/08**	**Fri 2/13/09**
204	EMS	OAG DDN update	90%	Thu 12/11/08	Fri 2/13/09
205	EMS	Gen DDN	90%	Thu 12/11/08	Fri 2/13/09
206	EMS	SCADA DDN	90%	Thu 12/11/08	Fri 2/13/09
207	EMS	Network DDN	20%	Thu 12/11/08	Fri 2/13/09
208	**EMS**	**Areva Updated DDNs for SIGs**	**85%**	**Thu 12/11/08**	**Wed 1/21/09**
209	EMS	SIG0002 Private Use Networks	90%	Thu 12/11/08	Wed 1/21/09
210	EMS	SIG0008 Non Modeled Generation	80%	Thu 12/11/08	Wed 1/21/09
211	EMS	AREVA Documentation Complete	0%	Mon 4/27/09	Mon 4/27/09
212	**EMS**	**ERCOT Documents**	**10%**	**Tue 8/5/08**	**Wed 7/8/09**
213	EMS	System Monitor Document Development	0%	Tue 4/7/09	Mon 5/4/09
214	EMS	EMS External Interface Document	100%	Tue 8/5/08	Tue 9/30/08
215	**EMS**	**As built Documentation (ERCOT)**	**3%**	**Mon 11/17/08**	**Wed 4/8/09**
216	EMS	Display Reference Guides (ERCOT Developed)	6%	Mon 11/17/08	Wed 2/4/09
217	EMS	Operational Guide	6%	Mon 11/17/08	Wed 2/4/09
218	EMS	Maintenance Guide	0%	Thu 2/5/09	Wed 4/8/09
219	EMS	User Guide ERCOT Developed	0%	Thu 2/5/09	Wed 4/8/09
220	**EMS**	**Release Management & Approvals**	**7%**	**Fri 9/26/08**	**Wed 7/8/09**
221	**EMS**	**Use Cases update**	**0%**	**Tue 4/28/09**	**Tue 5/26/09**
222	EMS	Blackout	0%	Tue 4/28/09	Tue 5/26/09
223	EMS	Data Archival	0%	Tue 4/28/09	Tue 5/26/09
224	EMS	Data Model Performance Evaluation	0%	Tue 4/28/09	Tue 5/26/09
225	EMS	State Estimator Performance Evaluation	0%	Tue 4/28/09	Tue 5/26/09
226	EMS	DC Tie	0%	Tue 4/28/09	Tue 5/26/09
227	EMS	DMI	0%	Tue 4/28/09	Tue 5/26/09
228	EMS	Failover	0%	Tue 4/28/09	Tue 5/26/09
229	EMS	SCADA	0%	Tue 4/28/09	Tue 5/26/09
230	EMS	Telecommunications Redundancy	0%	Tue 4/28/09	Tue 5/26/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
231	EMS	Wind Power Forecasting	0%	Tue 4/28/09	Tue 5/26/09
232	EMS	EMS CIM Importer	0%	Tue 4/28/09	Tue 5/26/09
233	EMS	Display Reference Guide	0%	Tue 4/28/09	Thu 6/11/09
234	EMS	Operational Guide	0%	Tue 4/28/09	Thu 6/11/09
235	EMS	Maintenance Guide	0%	Tue 4/28/09	Thu 6/11/09
236	EMS	User Guide	0%	Tue 4/28/09	Thu 6/11/09
237	EMS	System Monitoring Document	0%	Tue 5/5/09	Wed 7/8/09
238	EMS	Update previously approved Use cases?	0%	Tue 4/28/09	Tue 6/30/09
239	EMS	Update previously approved DD docs?	0%	Tue 4/28/09	Tue 6/30/09
240	EMS	Review EMS External Interface Specification	100%	Wed 10/1/08	Tue 11/4/08
241	EMS	All Release Management Approvals Complete	0%	Wed 7/8/09	Wed 7/8/09
242	**EMS**	**QA New Documents**	**10%**	**Fri 9/26/08**	**Fri 3/27/09**
243	**EMS**	**CIM Importer - QA Reviews**	**0%**	**Mon 2/16/09**	**Thu 3/19/09**
244	EMS	OAG DDN - QA	0%	Mon 2/16/09	Thu 3/19/09
245	EMS	GEN DDN - QA	0%	Mon 2/16/09	Thu 3/19/09
246	EMS	SCADA DDN - QA	0%	Mon 2/16/09	Thu 3/19/09
247	EMS	NETWORK DDN - QA	0%	Mon 2/16/09	Thu 3/19/09
248	EMS	OE Document ERCOT - QA	0%	Mon 3/2/09	Fri 3/27/09
249	EMS	VSS Document ERCOT - QA	1%	Thu 12/11/08	Tue 1/27/09
250	EMS	LFC (Includes FSS) - QA	100%	Fri 9/26/08	Fri 10/24/08
251	EMS	MTLF (zonal development/picked up by Nodal) - QA	0%	Tue 1/6/09	Wed 3/4/09
252	EMS	QA New Documents Completed	0%	Fri 3/27/09	Fri 3/27/09
253	**EMS**	**EMS Project Training**	**8%**	**Mon 6/2/08**	**Thu 11/12/09**
254	EMS	Develop EMS Trainng Plan	100%	Mon 6/2/08	Wed 6/11/08
255	EMS	Approval of Training Plan (EMMS Dev / Support & Ops)	100%	Wed 6/11/08	Fri 6/27/08
256	EMS	Define EMS courses content	0%	Tue 2/24/09	Mon 3/16/09
257	**EMS**	**Training Course Development**	**0%**	**Wed 6/10/09**	**Thu 10/15/09**
258	EMS	Develop Product Training Lite (PTL)	0%	Wed 6/10/09	Wed 8/5/09
259	EMS	Develop Application Support Training (AST)	0%	Wed 6/10/09	Mon 8/17/09
260	EMS	Develop User/Product Training (UPT)	0%	Wed 6/10/09	Thu 10/15/09
261	**EMS**	**Training Delivery**	**0%**	**Thu 8/6/09**	**Thu 11/12/09**
262	**EMS**	**Product Training Lite (PTL)**	**0%**	**Thu 8/6/09**	**Wed 9/2/09**
263	EMS	EMS PTL #1	0%	Thu 8/6/09	Wed 8/19/09
264	EMS	EMS PTL #2	0%	Thu 8/20/09	Wed 9/2/09
265	**EMS**	**Application Support Training (AST)**	**0%**	**Tue 8/18/09**	**Tue 9/15/09**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
266	EMS	EMS AST #1	0%	Tue 8/18/09	Mon 8/31/09
267	EMS	EMS AST #2	0%	Tue 9/1/09	Tue 9/15/09
268	**EMS**	**User/Product Training (UPT)**	**0%**	**Fri 10/16/09**	**Thu 11/12/09**
269	EMS	EMS UPT #1	0%	Fri 10/16/09	Thu 10/29/09
270	EMS	EMS UPT #2	0%	Fri 10/30/09	Thu 11/12/09
271	EMS	Training Delivery Completed	0%	Thu 11/12/09	Thu 11/12/09
272	**EMS**	**EMS S/W Maintenance & Support (During Project Only)**	**51%**	**Tue 6/3/08**	**Fri 8/21/09**
273	EMS	System build processes maintenance (Align Dev/FAT to EDS system)	70%	Wed 8/20/08	Mon 3/9/09
274	**EMS**	**Defect Investigation & Re-work**	**50%**	**Tue 6/3/08**	**Fri 8/21/09**
275	EMS	FOD Defect Indentification/Resolution	50%	Tue 6/3/08	Fri 8/21/09
276	EMS	TCM/SE Defect Indentification/Resolution	50%	Tue 6/3/08	Fri 8/21/09
277	EMS	Interfaces Out Defect Indentification/Resolution	50%	Tue 6/3/08	Fri 8/21/09
278	EMS	Interfaces In Defect Indentification/Resolution	50%	Tue 6/3/08	Fri 8/21/09
279	EMS	MTLF Defect Indentification/Resolution	50%	Tue 6/3/08	Fri 8/21/09
280	EMS	CA/DRAP Defect Indentification/Resolution	50%	Tue 6/3/08	Fri 8/21/09
281	EMS	Gen Defect Indentification/Resolution	50%	Tue 6/3/08	Fri 8/21/09
282	EMS	SCADA/System Defect Indentification/Resolution	50%	Tue 6/3/08	Fri 8/21/09
283	EMS	EMS UI Defect Indentification/Resolution	50%	Tue 6/3/08	Fri 8/21/09
284	**EMS**	**EMS Transition to Home Teams & Close**	**0%**	**Fri 4/24/09**	**Tue 1/19/10**
285	EMS	EMS Transition plan update	0%	Fri 4/24/09	Fri 6/5/09
286	EMS	EMS Transition to EMMS Development	0%	Fri 11/13/09	Tue 12/15/09
287	EMS	EMS Transition to Production Support	0%	Mon 6/8/09	Mon 7/6/09
288	EMS	EMS Transition to NMMS (model maintenance)	0%	Mon 6/8/09	Mon 7/6/09
289	EMS	EMS Transition to Outage Scheduler (OE)	0%	Tue 9/1/09	Tue 9/29/09
290	EMS	EMS Transition to Operation Support	0%	Tue 9/1/09	Tue 9/29/09
291	EMS	EMS Transition to 168 Hour Test	0%	Wed 12/16/09	Tue 1/19/10
292	EMS	END OF PROJECT	0%	Tue 1/19/10	Tue 1/19/10
293	**EMS**	**PRIOR WORK COMPLETED IN OLD SCHEDULE (Partial)**	**100%**	**Mon 6/2/08**	**Fri 10/17/08**
294	**EMS**	**Zonal Seed Stage 1**	**100%**	**Mon 6/2/08**	**Fri 6/13/08**
295	EMS	ERCOT Sends Zonal Save Cases to AREVA	100%	Mon 6/2/08	Mon 6/2/08
296	**EMS**	**AREVA**	**100%**	**Mon 6/2/08**	**Fri 6/13/08**
297	EMS	Develop the Export XML file	100%	Mon 6/2/08	Fri 6/13/08
298	**EMS**	**ERCOT**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
299	EMS	Zonal Seed Stage 1 Handoff to NMMS	100%	Mon 6/2/08	Mon 6/2/08
300	**EMS**	**Development Tasks Completed**	**100%**	**Mon 6/2/08**	**Wed 6/25/08**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
301	EMS	FSS	100%	Mon 6/2/08	Wed 6/25/08
302	EMS	Study Server	100%	Tue 6/3/08	Wed 6/4/08
303	**EMS**	**Internal release 2 +**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
304	EMS	Dynamic Ratings Enhancements	100%	Mon 6/2/08	Mon 6/2/08
305	EMS	TCM Enhancements	100%	Mon 6/2/08	Mon 6/2/08
306	EMS	OS API in FOD	100%	Mon 6/2/08	Mon 6/2/08
307	EMS	COP API in FOD	100%	Mon 6/2/08	Mon 6/2/08
308	EMS	Interface patch 2	100%	Mon 6/2/08	Mon 6/2/08
309	**EMS**	**Internal release 3**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
310	EMS	Interface patch 3	100%	Mon 6/2/08	Mon 6/2/08
311	EMS	SPRs	100%	Mon 6/2/08	Mon 6/2/08
312	EMS	Interface release 4	100%	Tue 6/3/08	Mon 6/23/08
313	**EMS**	**Control room wall board Implementation (CI128)**	**100%**	**Mon 6/2/08**	**Fri 10/17/08**
314	EMS	Build internal proof concept'	100%	Mon 6/2/08	Wed 7/9/08
315	EMS	Evaluate eterra Vision & select	100%	Fri 8/15/08	Fri 9/5/08
316	**EMS**	**Wall Board Devlopment**	**100%**	**Mon 9/8/08**	**Fri 10/17/08**
317	EMS	WB design Document	100%	Mon 9/8/08	Fri 9/26/08
318	EMS	EMS WB Doc Review	100%	Mon 9/29/08	Fri 10/17/08
319	EMS	Displays Updates	100%	Tue 8/5/08	Wed 10/1/08
320	**EMS**	**Documents**	**100%**	**Mon 6/2/08**	**Wed 9/24/08**
321	EMS	Load Forecast (MTLF) - from zonal	100%	Fri 7/18/08	Fri 7/18/08
322	EMS	LFC Rqt Doc update	100%	Tue 7/22/08	Tue 7/22/08
323	EMS	Habitat 5.7 Installation Notes	100%	Fri 9/19/08	Mon 9/22/08
324	**EMS**	**CIM Importer DDNs Model 1.20**	**100%**	**Mon 6/2/08**	**Wed 9/24/08**
325	**EMS**	**OAG DDN**	**100%**	**Mon 6/2/08**	**Fri 6/13/08**
326	EMS	Submitted for ERCOT Review	100%	Mon 6/2/08	Mon 6/2/08
327	EMS	ERCOT Approval	100%	Mon 6/2/08	Fri 6/13/08
328	EMS	SCADA DDN	100%	Tue 7/8/08	Mon 8/11/08
329	EMS	Network DDN	100%	Mon 7/7/08	Thu 9/4/08
330	EMS	Generation DDN	100%	Tue 7/1/08	Wed 9/24/08
331	**EMS**	**EMS Release Dates to Exit FAT - Completed**	**100%**	**Mon 6/2/08**	**Mon 8/11/08**
332	**EMS**	**EMS Release 4.1.11.3 (DYNRTG)**	**100%**	**Mon 6/2/08**	**Wed 6/11/08**
333	EMS	Internal release 2	100%	Tue 6/3/08	Wed 6/11/08
334	EMS	DataMan Patch (30416)	100%	Mon 6/2/08	Wed 6/4/08
335	EMS	WebFG 3.5 (30841)	100%	Mon 6/2/08	Tue 6/10/08

Wed 1/14/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
336	EMS	FG Builder 5.6 (30894)	100%	Tue 6/3/08	Wed 6/11/08
337	**EMS**	**EMS Release 4.1.12.3 (Inteface-3)**	**100%**	**Mon 6/2/08**	**Fri 6/13/08**
338	EMS	Internal release 3	100%	Tue 6/3/08	Tue 6/10/08
339	EMS	Study SE	100%	Mon 6/2/08	Fri 6/13/08
340	EMS	EMS Release 5.1.2.x (RLC Emergency Patch)	100%	Thu 6/19/08	Thu 6/19/08
341	**EMS**	**EMS Release 5.1.3.3 (EMS 5 Support)**	**100%**	**Wed 6/4/08**	**Fri 7/18/08**
342	EMS	RQT	100%	Tue 6/24/08	Wed 7/2/08
343	EMS	Study Server	100%	Wed 6/4/08	Wed 6/18/08
344	EMS	FSS	100%	Tue 6/24/08	Mon 7/7/08
345	EMS	Internal Interface 4	100%	Tue 6/24/08	Fri 7/18/08
346	EMS	Alarm configuration (GEN&FOD)	100%	Wed 7/2/08	Tue 7/15/08
347	EMS	Deliver 5.1.3.3 Release to iTEST	100%	Tue 7/15/08	Tue 7/15/08
348	EMS	Receive EMS 5.1.3 from EMS	100%	Tue 7/15/08	Tue 7/15/08
349	**EMS**	**EMS Release 5.1.4.x (VSAT/TSAT, etc)**	**100%**	**Mon 7/21/08**	**Mon 8/11/08**
350	EMS	VSAT/TSAT	100%	Mon 7/21/08	Mon 8/11/08
351	EMS	Deliver Release 5.1.4.x (VSAT/TSAT) to iTEST	100%	Mon 8/11/08	Mon 8/11/08
352	EMS	Receive EMS 5.1.4(VSAT/TSAT) from EMS	100%	Mon 8/11/08	Mon 8/11/08
353	**EMS**	**EMS Replan - Completed by Dave H.**	**100%**	**Mon 6/2/08**	**Tue 11/4/08**
354	**EMS**	**Milestones**	**100%**	**Thu 8/28/08**	**Thu 8/28/08**
355	EMS	Completion of EMS 3 Features Release	100%	Thu 8/28/08	Thu 8/28/08
356	EMS	Completion of EMS 4 Features Release	100%	Thu 8/28/08	Thu 8/28/08
357	**EMS**	**Interfaces & Dependancies**	**100%**	**Tue 6/10/08**	**Fri 9/26/08**
358	**EMS**	**Receivables**	**100%**	**Mon 7/28/08**	**Mon 7/28/08**
359	EMS	Receive NMMS (Model)-> EMS from NMMS	100%	Mon 7/28/08	Mon 7/28/08
360	**EMS**	**Deliveries**	**100%**	**Tue 6/10/08**	**Fri 9/26/08**
361	EMS	Deliver EMS Ready to Intgrate earlier interfaces & releases to CDR	100%	Fri 7/18/08	Fri 7/18/08
363	EMS	Deliver EMS->EDW Earlier Release interface to EDW	100%	Tue 6/10/08	Tue 6/10/08
365	EMS	EMS->Notifications w EIP162(ERCOT)	100%	Fri 9/26/08	Fri 9/26/08
366	EMS	EMS->Notifications w EIP162 (AREVA)	100%	Fri 9/26/08	Fri 9/26/08
367	EMS	EMS-CDR ready for Itest	100%	Fri 9/26/08	Fri 9/26/08
368	**EMS**	**EMS Release Dates to Exit FAT**	**100%**	**Mon 6/2/08**	**Mon 11/3/08**
369	**EMS**	**EMS Release 4.1.11.3 (DYNRTG)**	**100%**	**Mon 6/2/08**	**Wed 6/11/08**
370	EMS	Internal release 2	100%	Tue 6/3/08	Wed 6/11/08
371	EMS	DataMan Patch (30416)	100%	Mon 6/2/08	Wed 6/4/08
372	EMS	WebFG 3.5 (30841)	100%	Mon 6/2/08	Tue 6/10/08

ID	Project Name	Task Name	% Complete	Start	Finish
373	EMS	FG Builder 5.6 (30894)	100%	Tue 6/3/08	Wed 6/11/08
374	**EMS**	**EMS Release 4.1.12.3 (Inteface-3)**	**100%**	**Mon 6/2/08**	**Fri 6/13/08**
375	EMS	Internal release 3	100%	Tue 6/3/08	Tue 6/10/08
376	EMS	Study SE	100%	Mon 6/2/08	Fri 6/13/08
377	EMS	EMS Release 5.1.2.x (RLC Emergency Patch)	100%	Thu 6/19/08	Thu 6/19/08
378	**EMS**	**EMS Release 5.1.3.3 (EMS 5 Support)**	**100%**	**Wed 6/4/08**	**Fri 7/18/08**
379	EMS	RQT	100%	Tue 6/24/08	Wed 7/2/08
380	EMS	Study Server	100%	Wed 6/4/08	Wed 6/18/08
381	EMS	FSS	100%	Tue 6/24/08	Mon 7/7/08
382	EMS	Internal Interface 4	100%	Tue 6/24/08	Fri 7/18/08
383	EMS	Alarm configuration (GEN&FOD)	100%	Wed 7/2/08	Tue 7/15/08
384	EMS	Deliver 5.1.3.3 Release to iTEST	100%	Tue 7/15/08	Tue 7/15/08
386	**EMS**	**EMS Release 5.1.5.X (EMS 5 OE/VSS)**	**100%**	**Tue 8/5/08**	**Fri 9/26/08**
387	EMS	Notifications ERCOT	100%	Tue 8/5/08	Fri 9/26/08
388	EMS	Notifications AREVA	100%	Tue 8/5/08	Fri 9/26/08
389	**EMS**	**EMS Release 5.1.4.x (VSAT/TSAT, etc)**	**100%**	**Mon 7/21/08**	**Mon 8/11/08**
390	EMS	VSAT/TSAT	100%	Mon 7/21/08	Mon 8/11/08
391	EMS	Deliver Release 5.1.4.x (VSAT/TSAT) to iTEST	100%	Mon 8/11/08	Mon 8/11/08
393	**EMS**	**EMS Release 5.1.7.x (CIM Importer)**	**100%**	**Mon 10/13/08**	**Mon 11/3/08**
394	EMS	EMS CIM Importer FAT	100%	Mon 10/13/08	Mon 11/3/08
395	EMS	Deliver Release 5.1.7.x (CIM Importer) to iTEST & NMMS	100%	Mon 11/3/08	Mon 11/3/08
396	**EMS**	**EMS Release 5.1.8.x**	**100%**	**Thu 10/23/08**	**Thu 10/23/08**
397	EMS	Deliver Release 5.1.8.x (CDR Bug Fix) to CDR	100%	Thu 10/23/08	Thu 10/23/08
398	**EMS**	**Quality Assurance Documents**	**100%**	**Fri 9/26/08**	**Tue 11/4/08**
399	EMS	Review EMS External Interface Specification	100%	Wed 10/1/08	Tue 11/4/08
400	**EMS**	**QA New Documents**	**100%**	**Fri 9/26/08**	**Fri 10/24/08**
401	EMS	LFC (Includes FSS) - QA	100%	Fri 9/26/08	Fri 10/24/08
402	**EMS**	**Implementation**	**100%**	**Mon 6/2/08**	**Fri 10/31/08**
403	**EMS**	**AREVA Development**	**100%**	**Mon 6/2/08**	**Fri 10/31/08**
404	**EMS**	**EMS 5 Features**	**100%**	**Mon 9/8/08**	**Mon 9/8/08**
405	EMS	OE	100%	Mon 9/8/08	Mon 9/8/08
406	EMS	VSS	100%	Mon 9/8/08	Mon 9/8/08
407	**EMS**	**CIM Importer**	**100%**	**Mon 7/7/08**	**Mon 10/13/08**
408	EMS	Iterations with NMMS to fix Schemas & populated data	100%	Mon 7/7/08	Tue 9/16/08
409	EMS	EMS CIM Importer Pre-FAT	100%	Wed 9/17/08	Fri 10/10/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
410	EMS	EMS CIM Importer Pre-FAT Completed	100%	Mon 10/13/08	Mon 10/13/08
411	EMS	Zonal Seed for Validation Stage 1 (AREVA Delivery)	100%	Mon 10/20/08	Fri 10/31/08
412	EMS	Deliver Data Validtion Zonal Seed for DD1.21 to NMMS	100%	Fri 10/31/08	Fri 10/31/08
414	**EMS**	**EMS SPRs Patches from AREVA**	**100%**	**Mon 7/28/08**	**Wed 10/29/08**
415	EMS	EMS SPR Patch 1	100%	Mon 7/28/08	Tue 7/29/08
416	EMS	EMS SPR Patch 2	100%	Mon 8/25/08	Tue 8/26/08
417	EMS	EMS SPR Patch 3	100%	Wed 10/1/08	Thu 10/2/08
418	EMS	EMS SPR Patch 4	100%	Wed 10/29/08	Wed 10/29/08
419	**EMS**	**AREVA New Documents**	**100%**	**Mon 6/2/08**	**Thu 9/25/08**
420	**EMS**	**CIM Importer DDNs**	**100%**	**Mon 6/2/08**	**Thu 9/25/08**
421	**EMS**	**OAG DDN**	**100%**	**Mon 6/2/08**	**Fri 6/13/08**
422	EMS	Submitted for Review	100%	Mon 6/2/08	Mon 6/2/08
423	EMS	ERCOT Approval	100%	Mon 6/2/08	Fri 6/13/08
424	**EMS**	**SCADA DDN**	**100%**	**Tue 7/8/08**	**Mon 8/11/08**
425	EMS	Submitted for Review	100%	Tue 7/8/08	Wed 7/9/08
426	EMS	ERCOT Comments	100%	Wed 7/9/08	Thu 7/10/08
427	EMS	AREVA to Resubmit	100%	Fri 7/11/08	Wed 7/16/08
428	EMS	ERCOT Approval	100%	Tue 8/5/08	Mon 8/11/08
429	**EMS**	**Network DDN**	**100%**	**Mon 7/7/08**	**Thu 9/4/08**
430	EMS	Submitted for Review	100%	Mon 7/7/08	Tue 7/8/08
431	EMS	ERCOT Comments	100%	Tue 7/8/08	Thu 7/10/08
432	EMS	AREVA to Resubmit	100%	Fri 7/11/08	Wed 7/23/08
433	EMS	ERCOT Approval	100%	Thu 7/24/08	Thu 9/4/08
434	**EMS**	**Generation DDN**	**100%**	**Tue 7/1/08**	**Thu 9/25/08**
435	EMS	Submitted for Review	100%	Tue 7/1/08	Wed 7/2/08
436	EMS	ERCOT Comments	100%	Wed 7/2/08	Fri 8/1/08
437	EMS	AREVA to Resubmit	100%	Wed 7/30/08	Wed 8/6/08
438	EMS	ERCOT Approval	100%	Fri 9/19/08	Thu 9/25/08
439	EMS	Habitat 5.7 Installation Notes	100%	Wed 7/9/08	Thu 7/10/08
440	EMS	Load Forecast (MTLF) - from zonal	100%	Fri 7/18/08	Mon 7/21/08
441	EMS	LFC Rqt Doc update	100%	Tue 7/22/08	Wed 7/23/08
442	**EMS**	**ERCOT Development**	**100%**	**Mon 6/2/08**	**Fri 10/17/08**
443	EMS	FSS	100%	Mon 6/2/08	Wed 6/25/08
444	EMS	Study Server	100%	Tue 6/3/08	Wed 6/4/08
445	**EMS**	**Internal release 2 +**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
446	EMS	Dynamic Ratings Enhancements	100%	Mon 6/2/08	Mon 6/2/08
447	EMS	TCM Enhancements	100%	Mon 6/2/08	Mon 6/2/08
448	EMS	OS API in FOD	100%	Mon 6/2/08	Mon 6/2/08
449	EMS	COP API in FOD	100%	Mon 6/2/08	Mon 6/2/08
450	EMS	Interface patch 2	100%	Mon 6/2/08	Mon 6/2/08
451	**EMS**	**Internal release 3**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
452	EMS	Interface patch 3	100%	Mon 6/2/08	Mon 6/2/08
453	EMS	SPRs	100%	Mon 6/2/08	Mon 6/2/08
454	EMS	Interface release 4	100%	Tue 6/3/08	Mon 6/23/08
455	**EMS**	**Interface release 5**	**100%**	**Tue 6/24/08**	**Thu 8/28/08**
456	EMS	CDR 3C & EDW2	100%	Tue 6/24/08	Tue 7/22/08
457	EMS	Settlements & Billing SPRs	100%	Tue 6/24/08	Tue 7/22/08
458	EMS	Weather Interface SPRs	100%	Tue 6/24/08	Tue 7/22/08
459	**EMS**	**EMS-MMS Interface refactor**	**100%**	**Tue 6/24/08**	**Thu 8/28/08**
460	EMS	Re-design the interface (DDN)	100%	Tue 6/24/08	Mon 7/7/08
461	EMS	Revise DDN for MMS comments	100%	Mon 7/7/08	Fri 8/1/08
462	EMS	Deliver Revised DDN to MMS	100%	Fri 8/1/08	Fri 8/1/08
464	EMS	Total Regulation Report - corrected data present	100%	Mon 7/14/08	Mon 8/4/08
465	EMS	Implement the interface	100%	Thu 7/24/08	Thu 8/28/08
466	EMS	Alarm configuration Analysis	100%	Mon 6/2/08	Tue 6/24/08
467	EMS	Alarm Configuration implementation (FOD&GEN)	100%	Tue 6/3/08	Mon 6/30/08
468	**EMS**	**Notifications**	**100%**	**Thu 6/19/08**	**Tue 8/12/08**
469	EMS	Notification ERCOT	100%	Thu 6/19/08	Tue 8/12/08
470	EMS	Notificaton AREVA (RTGEN)	100%	Tue 7/8/08	Mon 8/4/08
471	**EMS**	**Control room wall board Implementation (CI128)**	**100%**	**Mon 6/2/08**	**Fri 10/17/08**
472	EMS	Build internal proof concept'	100%	Mon 6/2/08	Wed 7/9/08
473	EMS	Evaluate eterra Vision & select	100%	Fri 8/15/08	Fri 9/5/08
474	**EMS**	**Wall Board Devlopment**	**100%**	**Mon 9/8/08**	**Fri 10/17/08**
475	EMS	WB design Document	100%	Mon 9/8/08	Fri 9/26/08
476	EMS	EMS WB Doc Review	100%	Mon 9/29/08	Fri 10/17/08
477	EMS	Displays Updates	100%	Tue 8/5/08	Wed 10/1/08
478	EMS	EMS External Interface Document	100%	Tue 8/5/08	Tue 9/30/08
479	**EMS**	**NPRR tasks Board Approved**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
480	EMS	119 (1) Resource limit calculator	100%	Mon 6/2/08	Mon 6/2/08
481	**EMS**	**Equipment Setup**	**100%**	**Mon 6/2/08**	**Mon 7/14/08**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
482	EMS	VSAT/TSAT Dev & FAT	100%	Tue 6/24/08	Mon 7/14/08
483	EMS	Study Server (FAT)	100%	Mon 6/2/08	Thu 6/5/08
484	**EMS**	**SIG Related Rework**	**100%**	**Tue 10/7/08**	**Tue 10/7/08**
485	**EMS**	**EMS CIM Importer Refactor**	**100%**	**Tue 10/7/08**	**Tue 10/7/08**
486	EMS	Define Data Dictionary for 1.21	100%	Tue 10/7/08	Tue 10/7/08
487	**EMS**	**EMS Training Class Development & Delivery**	**100%**	**Mon 6/2/08**	**Fri 6/27/08**
488	EMS	Develop EMS Trainng Plan	100%	Mon 6/2/08	Wed 6/11/08
489	EMS	Approval of Training Plan (EMMS Dev / Support & Ops)	100%	Wed 6/11/08	Fri 6/27/08
490	**EMS**	**NPRR tasks Board Approved**	**100%**	**Mon 6/2/08**	**Mon 9/15/08**
491	**EMS**	**No Impact To EMS**	**100%**	**Mon 6/2/08**	**Mon 9/15/08**
492	EMS	NPRR 99 (4) RMR Incentive Factor Payment	100%	Mon 6/2/08	Mon 6/2/08
493	EMS	NPRR 101(4) Modify Time Requirements for Entry of Equipment in the Outage Scheduler	100%	Mon 6/2/08	Mon 6/2/08
494	EMS	NPRR 103 (4) Settlement of Power Imported via DC Ties (Back to Back Ties) & Block Load Transfer Under Emergency Co	100%	Mon 6/2/08	Mon 6/2/08
495	EMS	NPRR 105 (4) Section 23, Synchronization of Zonal Protocols	100%	Mon 6/2/08	Mon 6/2/08
496	EMS	NPRR 106 (4) Section 24, Synchronization of Zonal Protocols	100%	Mon 6/2/08	Mon 6/2/08
497	EMS	NPRR 107 (4) Emergency Interruptible Load Service	100%	Mon 6/2/08	Mon 6/2/08
498	EMS	NPRR 109 (4) Section 18, Synchronization of Zonal Protocols	100%	Mon 6/2/08	Mon 6/2/08
499	EMS	NPRR 110 (4) Section 20, Synchronization of Zonal Protocols	100%	Mon 6/2/08	Mon 6/2/08
500	EMS	NPRR 112(4) Emergency Base Point Price Revision	100%	Mon 6/2/08	Mon 6/2/08
501	EMS	NPRR 114 Section 11, Synch of zonal protocols	100%	Mon 9/15/08	Mon 9/15/08
502	EMS	NPRR 117 (4) Resource Registration Clarification	100%	Mon 6/2/08	Mon 6/2/08
503	EMS	NPRR 123(4) Inadvertent Energy Account Revision	100%	Mon 6/2/08	Mon 6/2/08
504	EMS	NPRR 127 Section 22 Attachment A, I, J & M	100%	Mon 9/15/08	Mon 9/15/08
505	EMS	NPRR 132 Outage clarification	100%	Mon 9/15/08	Mon 9/15/08
506	EMS	NPRR 133 Addition of PSSE format	100%	Mon 9/15/08	Mon 9/15/08
3	**Nodal IPS**	**MMS - Market Management Systems**	**65%**	**Sun 6/1/08**	**Fri 7/30/10**
1	**MMS**	**Nodal MMS Project Schedule**	**65%**	**Sun 6/1/08**	**Fri 7/30/10**
2	MMS	MMS Start	100%	Sun 6/1/08	Sun 6/1/08
3	**MMS**	**Dependencies**	**98%**	**Sun 6/1/08**	**Mon 2/23/09**
4	**MMS**	**Interfaces**	**95%**	**Fri 8/1/08**	**Mon 2/23/09**
5	**MMS**	**NMMS => MMS**	**0%**	**Thu 2/19/09**	**Thu 2/19/09**
6	MMS	MMS: NMMS => MMS network models & contingencies interface complete	0%	Thu 2/19/09	Thu 2/19/09
7	MMS	MMS: NMMS => MMS competitive constraints interface complete	0%	Thu 2/19/09	Thu 2/19/09
8	MMS	Deliver MMS: REG => MMS => OS interface complete to OS	0%	Fri 2/20/09	Fri 2/20/09
10	MMS	MMS: CRR => MMS interface complete	0%	Thu 2/19/09	Thu 2/19/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
11	MMS	MMS: FIP/FOP => MMS interface complete	0%	Fri 2/20/09	Fri 2/20/09
12	**MMS**	**S&B => MMS**	**0%**	**Fri 2/20/09**	**Fri 2/20/09**
13	MMS	MMS: S&B => MMS interfaces complete (Verifiable Cost, RMR Contracts, Capacity Factor, Load Ratio Share)	0%	Fri 2/20/09	Fri 2/20/09
14	**MMS**	**CMM => MMS**	**0%**	**Fri 2/20/09**	**Fri 2/20/09**
15	MMS	MMS: CMM => MMS credit limits interface complete	0%	Fri 2/20/09	Fri 2/20/09
17	MMS	Receive MMS: OS=> MMS interface complete from OS	0%	Thu 2/19/09	Thu 2/19/09
18	**MMS**	**MMS => S&B**	**0%**	**Tue 1/13/09**	**Tue 1/13/09**
19	MMS	Deliver MMS: MMS => S&B CMM , DAM, RT, & SASM interface Complete to COMS	0%	Tue 1/13/09	Tue 1/13/09
20	MMS	Deliver Verification of Staging Tables/Views & Data Population to CDR	100%	Tue 11/4/08	Tue 11/4/08
22	MMS	EDW:Verification of Constraint Name extract	0%	Fri 2/20/09	Mon 2/23/09
23	MMS	MMS: MMS => EDW interface complete	0%	Mon 2/23/09	Mon 2/23/09
24	MMS	MMS: MMS <=> EWS interface complete	0%	Thu 2/19/09	Thu 2/19/09
25	**MMS**	**EMS <=> MMS**	**100%**	**Fri 8/1/08**	**Mon 10/6/08**
27	MMS	Receive MMS: Received new mapping tables from EMS for EMS-MMS interface from EMS	100%	Fri 8/1/08	Fri 8/1/08
28	MMS	Deliver MMS: Review & approval of EMS-MMS interface document complete to CDR	100%	Fri 8/8/08	Fri 8/8/08
30	MMS	Internally developed (MMS portion) EMS<->MMS interface	100%	Mon 8/11/08	Thu 10/2/08
31	MMS	MMS: EIP developed EMS <=> MMS framework design complete	100%	Mon 10/6/08	Mon 10/6/08
32	**MMS**	**Operating Dependencies**	**99%**	**Sun 6/1/08**	**Thu 1/8/09**
33	**MMS**	**NMMS**	**100%**	**Sun 6/1/08**	**Thu 1/8/09**
34	MMS	Inetgrate through identification of data issues with CIM XML files (wrt corresponding schema)	100%	Mon 6/2/08	Tue 8/19/08
35	MMS	MMS: Identify MMS schema extension definitions complete (after baseline 1 & 2 requirements approved by TPTF)	100%	Sun 6/1/08	Sun 6/1/08
37	MMS	Receive MMS: Validated & Syncronized CIM XML Dataset Available from NMMS	100%	Thu 1/8/09	Thu 1/8/09
38	MMS	MMS: EMS<->MMS Interface complete (EMS CIM Importer Working w/ data)	100%	Thu 1/8/09	Thu 1/8/09
39	**MMS**	**INF**	**0%**	**Thu 1/8/09**	**Thu 1/8/09**
40	**MMS**	**MMS DEV**	**0%**	**Thu 1/8/09**	**Thu 1/8/09**
41	MMS	MMS: Additional CPUs for SFT parallel processing for MMS DEV delivered	0%	Thu 1/8/09	Thu 1/8/09
42	**MMS**	**MMS FAT**	**0%**	**Thu 1/8/09**	**Thu 1/8/09**
43	MMS	MMS: Additional CPUs for SFT parallel processing for MMS FAT delivered	0%	Thu 1/8/09	Thu 1/8/09
44	MMS	MMS: Additional CPUs for SFT parallel processing for ABB delivered	0%	Thu 1/8/09	Thu 1/8/09
45	**MMS**	**CMM**	**100%**	**Sun 6/1/08**	**Sun 6/1/08**
46	MMS	MMS: requirements for downstream info required from MMS -> CMM approved	100%	Sun 6/1/08	Sun 6/1/08
47	**MMS**	**S&B**	**100%**	**Sun 6/1/08**	**Mon 6/2/08**
48	MMS	MMS: requirements for downstream info required from MMS -> S&B approved	100%	Sun 6/1/08	Sun 6/1/08
49	MMS	MMS: eTag & data agg requirements delivered by S&B	100%	Sun 6/1/08	Sun 6/1/08
50	MMS	Billing determinant development	100%	Mon 6/2/08	Mon 6/2/08

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ID	Project Name	Task Name	% Complete	Start	Finish
51	**MMS**	**OS**	**100%**	**Wed 10/29/08**	**Wed 10/29/08**
52	MMS	MMS: Validate that OS & MMS are on a common registration & equipment list complete	100%	Wed 10/29/08	Wed 10/29/08
53	**MMS**	**MMS4**	**81%**	**Mon 6/2/08**	**Mon 3/30/09**
54	**MMS**	**Creation/Validation of Staging Tables/Views & Data Population**	**68%**	**Mon 6/2/08**	**Fri 2/20/09**
55	**MMS**	**CDR**	**100%**	**Mon 6/2/08**	**Tue 11/4/08**
56	MMS	CDR:Staging tables/views defined	100%	Mon 6/2/08	Fri 6/6/08
57	MMS	CDR:Staging tables/views built	100%	Mon 6/9/08	Fri 6/20/08
58	MMS	CDR:Verification of Data	100%	Wed 10/29/08	Tue 11/4/08
59	**MMS**	**S&B**	**59%**	**Mon 6/2/08**	**Fri 2/20/09**
60	MMS	SB:Staging tables/views defined	100%	Mon 6/2/08	Fri 6/6/08
61	MMS	SB:Staging tables/views built	100%	Mon 6/9/08	Fri 6/20/08
62	MMS	SB: Verification of Data	50%	Wed 10/29/08	Fri 2/20/09
63	**MMS**	**CMM**	**59%**	**Mon 6/2/08**	**Fri 2/20/09**
64	MMS	CMM:Staging tables/views defined	100%	Mon 6/2/08	Fri 6/6/08
65	MMS	CMM:Staging table/views built	100%	Mon 6/9/08	Fri 6/20/08
66	MMS	CMM: Verification of Data	50%	Wed 10/29/08	Fri 2/20/09
67	**MMS**	**NMMS**	**100%**	**Mon 6/2/08**	**Wed 10/29/08**
68	MMS	NMMS:Transport defined	100%	Mon 6/2/08	Fri 6/6/08
69	MMS	NMMS:Transport built	100%	Mon 6/9/08	Fri 6/20/08
70	MMS	NMMS:Verification of Data	100%	Wed 10/29/08	Wed 10/29/08
71	**MMS**	**Registration:Verification of adapter**	**59%**	**Mon 6/2/08**	**Fri 2/20/09**
72	MMS	REG:Staging tables/views defined	100%	Mon 6/2/08	Fri 6/6/08
73	MMS	REG:Staging tables/views built	100%	Mon 6/9/08	Fri 6/20/08
74	MMS	REG:Verification of Registration Data	50%	Wed 10/29/08	Fri 2/20/09
75	**MMS**	**CRR**	**100%**	**Mon 6/2/08**	**Wed 10/29/08**
76	MMS	CRR:Staging tables/views defined	100%	Mon 6/2/08	Fri 6/6/08
77	MMS	CRR:Staging tables/views built	100%	Mon 6/9/08	Fri 6/20/08
78	MMS	CRR:Verification of Adapter	100%	Wed 10/29/08	Wed 10/29/08
79	**MMS**	**PLATTS (FIP/FOP)**	**59%**	**Mon 6/2/08**	**Fri 2/20/09**
80	MMS	PLTS:Staging tables/views defined	100%	Mon 6/2/08	Fri 6/6/08
81	MMS	PLTS:Staging tables/views built	100%	Mon 6/9/08	Fri 6/20/08
82	MMS	PLTS:Verification of Adapter	50%	Wed 10/29/08	Fri 2/20/09
83	**MMS**	**EMS**	**59%**	**Mon 6/2/08**	**Fri 2/20/09**
84	MMS	EMS:views defined	100%	Mon 6/2/08	Fri 6/6/08
85	MMS	EMS:views built	100%	Mon 6/9/08	Fri 6/20/08

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ID	Project Name	Task Name	% Complete	Start	Finish
86	MMS	EMS:Verification of Views	50%	Wed 10/29/08	Fri 2/20/09
87	MMS	Verification of Views for EMS	0%	Fri 2/20/09	Fri 2/20/09
88	**MMS**	**EDW**	**100%**	**Mon 6/2/08**	**Wed 10/1/08**
89	MMS	EDW:Staging tables/views defined	100%	Mon 6/2/08	Fri 6/6/08
90	MMS	EDW:Staging tables/views built (Replication)	100%	Mon 6/9/08	Fri 6/20/08
91	MMS	EDW:Verification of Data (Replication)	100%	Tue 9/30/08	Wed 10/1/08
92	MMS	Deliver RSS Source to EDW	100%	Wed 10/1/08	Wed 10/1/08
94	**MMS**	**EWS**	**100%**	**Mon 6/2/08**	**Fri 12/12/08**
95	MMS	EWS:Staging tables/views defined	100%	Mon 6/2/08	Fri 6/6/08
96	MMS	EWS:Staging tables/views built	100%	Mon 6/9/08	Fri 6/20/08
97	MMS	EWS:Verification of Data	100%	Wed 10/29/08	Fri 12/12/08
98	**MMS**	**MMS ERCOT Internal Development**	**88%**	**Mon 6/2/08**	**Mon 3/30/09**
99	MMS	Complete eTag development & testing	100%	Mon 6/2/08	Mon 11/10/08
100	MMS	FIP/FOP Readiness	100%	Tue 6/24/08	Fri 8/8/08
101	MMS	Change the Package TABCLN_PKG to improve the purge process	100%	Tue 6/24/08	Tue 9/30/08
102	MMS	Logging information into a table during Purge process	100%	Tue 6/24/08	Tue 9/30/08
103	MMS	Add new tables to CM_TABLE_CLEANUP_CONFIG table	100%	Tue 6/24/08	Tue 9/30/08
104	MMS	Review & creating new indexes on all the tables in MIDB, MAINF & other schemas	100%	Tue 6/24/08	Wed 11/5/08
105	MMS	Individual accounts (This is based on the Certificate & we need to test)	100%	Wed 10/1/08	Wed 10/8/08
106	MMS	(N4b): SASM AS Plan UI (This is now under ERCOT internal activity)	100%	Wed 10/1/08	Wed 10/8/08
107	MMS	(N 9.11) Proxy data substitution & DST	25%	Mon 11/3/08	Fri 2/20/09
108	MMS	(N9.5) UI profile customization	100%	Wed 10/1/08	Mon 10/6/08
109	MMS	(N29) MMS production database replication -- As per ABB, this require some platform changes. We will look for options to s	100%	Tue 6/24/08	Tue 10/7/08
110	MMS	Review & make changes to the following packages	100%	Tue 6/24/08	Mon 1/12/09
111	MMS	Partitioning of MIDB tables (large tables).	100%	Tue 6/24/08	Fri 12/12/08
112	MMS	Review the Outage Scheduler Schema	100%	Tue 6/24/08	Tue 10/7/08
113	MMS	MMS/OS Alarms to EMS	10%	Mon 11/17/08	Mon 3/30/09
114	**MMS**	**MMS4 Patch #2**	**100%**	**Mon 6/23/08**	**Tue 8/12/08**
115	**MMS**	**ABB**	**100%**	**Mon 6/23/08**	**Mon 6/23/08**
116	MMS	MMS4 Patch 2 delivered by ABB	100%	Mon 6/23/08	Mon 6/23/08
117	**MMS**	**ERCOT**	**100%**	**Tue 6/24/08**	**Tue 8/12/08**
118	MMS	MMS4_P2:Creation of test procedures for Patch #2	100%	Tue 6/24/08	Tue 7/1/08
119	MMS	MMS4_P2:MMS DEV build & test	100%	Tue 6/24/08	Mon 7/14/08
120	MMS	MMS4_P2:MMCR creation/submission	100%	Tue 7/8/08	Mon 7/14/08
121	MMS	MMS4_P2:MMS FAT build & test	100%	Tue 7/15/08	Mon 8/11/08

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ID	Project Name	Task Name	% Complete	Start	Finish
122	MMS	MMS4_P2:Sink/Source interface confirmation & test	100%	Tue 7/29/08	Mon 8/11/08
123	MMS	Deliver MMS4 Patch 2 to iTEST	100%	Mon 8/11/08	Mon 8/11/08
126	MMS	MMS4_P2 iTest Support Identification	100%	Tue 8/12/08	Tue 8/12/08
127	MMS	MMS4 Patch 2 complete	100%	Mon 8/11/08	Mon 8/11/08
128	**MMS**	**MMS4 Patch #3**	**100%**	**Mon 7/28/08**	**Tue 9/30/08**
129	**MMS**	**ABB**	**100%**	**Mon 7/28/08**	**Mon 7/28/08**
130	MMS	MMS4 Patch 3 delivered by ABB	100%	Mon 7/28/08	Mon 7/28/08
131	**MMS**	**ERCOT**	**100%**	**Tue 7/29/08**	**Tue 9/30/08**
132	MMS	MMS4_P3:Creation of test procedures for Patch #3	100%	Tue 7/29/08	Mon 8/18/08
133	MMS	MMS4_P3:Analyze & communicate changes from previos release	100%	Mon 8/11/08	Fri 8/15/08
134	MMS	MMS4_P3:MMS DEV build & test	100%	Tue 7/29/08	Mon 8/18/08
135	MMS	MMS4_P3:MMCR creation/submission	100%	Thu 8/14/08	Mon 8/18/08
136	MMS	MMS4_P3:MMS FAT build & test	100%	Tue 8/19/08	Mon 9/29/08
137	MMS	MMS_P3:Sink/Source interface confirmation & test	100%	Wed 9/3/08	Mon 9/29/08
138	MMS	Deliver MMS4 Patch 3 to iTEST	100%	Mon 9/29/08	Mon 9/29/08
140	MMS	MMS4_P3 iTest Support Identification	100%	Tue 9/30/08	Tue 9/30/08
141	MMS	MMS4 Patch 3 complete	100%	Tue 9/30/08	Tue 9/30/08
142	**MMS**	**MMS4 Patch #4**	**100%**	**Tue 9/2/08**	**Wed 10/29/08**
143	**MMS**	**ABB**	**100%**	**Tue 9/2/08**	**Tue 9/2/08**
144	MMS	MMS4 Patch 4 delivered by ABB	100%	Tue 9/2/08	Tue 9/2/08
145	**MMS**	**ERCOT**	**100%**	**Wed 9/3/08**	**Wed 10/29/08**
146	MMS	MMS4_P4:Creation of test procedures for Patch #4	100%	Wed 9/3/08	Tue 9/30/08
147	MMS	MMS4_P4:Analyze & communicate changes from previous release	100%	Wed 9/3/08	Tue 9/30/08
148	MMS	Deliver Changes from Previous Release - MMS4_P4 to EIP	100%	Tue 9/30/08	Tue 9/30/08
150	MMS	MMS4_P4:MMS DEV build & test	100%	Wed 9/3/08	Tue 9/30/08
151	MMS	MMS4_P4:MMCR creation/submission	100%	Wed 9/24/08	Tue 9/30/08
152	MMS	MMS4_P4:MMS FAT build & test	100%	Wed 10/1/08	Tue 10/28/08
153	MMS	MMS_P4:Sink/Source interface confirmation & test	100%	Wed 10/15/08	Tue 10/28/08
154	MMS	Deliver MMS4 Patch 4 to iTEST	100%	Tue 10/28/08	Tue 10/28/08
156	MMS	MMS4_P4 iTest Support Identification	100%	Wed 10/29/08	Wed 10/29/08
157	MMS	MMS4 Patch 4 complete	100%	Tue 10/28/08	Tue 10/28/08
158	**MMS**	**MMS4 Patch #5**	**100%**	**Tue 9/30/08**	**Tue 11/25/08**
159	**MMS**	**ABB**	**100%**	**Tue 9/30/08**	**Tue 9/30/08**
160	MMS	MMS4 Patch 5 delivered by ABB	100%	Tue 9/30/08	Tue 9/30/08
161	**MMS**	**ERCOT**	**100%**	**Wed 10/1/08**	**Tue 11/25/08**

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ID	Project Name	Task Name	% Complete	Start	Finish
162	MMS	MMS4_P5:Creation of test procedures for Patch #4	100%	Wed 10/1/08	Mon 10/13/08
163	MMS	MMS4_P5:Analyze & communicate changes from previous release	100%	Wed 10/1/08	Mon 10/13/08
164	MMS	Deliver Changes from Previous Release - MMS4_P5 to EIP	100%	Mon 10/13/08	Mon 10/13/08
166	MMS	MMS4_P5:MMS DEV build & test	100%	Wed 10/1/08	Wed 10/22/08
167	MMS	Deliver MMS4_P5:MMS DEV Build & Test to EDW & MPIM	100%	Wed 10/22/08	Wed 10/22/08
170	MMS	MMS4_P5:MMCR creation/submission	100%	Thu 10/16/08	Wed 10/22/08
171	MMS	MMS4_P5:MMS FAT build & test	100%	Wed 11/5/08	Tue 11/25/08
172	MMS	MMS_P5:Sink/Source interface confirmation & test	100%	Mon 11/17/08	Tue 11/25/08
173	MMS	Deliver MMS4 Patch 5 to iTEST	100%	Tue 11/25/08	Tue 11/25/08
175	MMS	MMS4_P5:Add all MMS "code" to CVS	100%	Thu 10/23/08	Thu 10/30/08
176	MMS	MMS4_P5 iTest Support Identification	100%	Tue 11/25/08	Tue 11/25/08
177	MMS	MMS4 Patch 5 complete	100%	Tue 11/25/08	Tue 11/25/08
179	**MMS**	**MMS4 Patch #6**	**100%**	**Fri 11/21/08**	**Tue 1/13/09**
180	**MMS**	**ABB**	**100%**	**Fri 11/21/08**	**Fri 11/21/08**
181	MMS	MMS4 Patch 6 delivered by ABB	100%	Fri 11/21/08	Fri 11/21/08
182	**MMS**	**ERCOT**	**100%**	**Mon 11/24/08**	**Tue 1/13/09**
183	MMS	MMS4_P6:Creation of test procedures for Patch #6	100%	Mon 11/24/08	Fri 12/5/08
184	MMS	MMS4_P6:Analyze & communicate changes from previous release	100%	Mon 11/24/08	Fri 12/5/08
186	MMS	MMS4_P6:MMS DEV build & test	100%	Mon 11/24/08	Mon 12/1/08
187	MMS	MMS4_P6:MMCR creation/submission	100%	Mon 11/24/08	Tue 12/2/08
188	MMS	MMS4_P6:MMS FAT build & test	100%	Thu 12/11/08	Fri 1/9/09
189	**MMS**	**MMS4_P6: Sink/Source Interface Confirmed**	**100%**	**Thu 1/8/09**	**Tue 1/13/09**
190	MMS	MMS4_P6: NMMS Verified	100%	Thu 1/8/09	Tue 1/13/09
191	MMS	MMS4_P6: S&B to/from Verified	100%	Thu 1/8/09	Tue 1/13/09
192	MMS	MMS4_P6: OS Verified	100%	Thu 1/8/09	Tue 1/13/09
193	MMS	MMS4_P6: CRR Verified	100%	Thu 1/8/09	Tue 1/13/09
194	MMS	MMS4_P6: Registration Verified	100%	Thu 1/8/09	Tue 1/13/09
195	MMS	MMS4_P6: PLATTS (FIP/FOP) Verified	100%	Thu 1/8/09	Tue 1/13/09
196	MMS	MMS4_P6: EDW Verified	100%	Thu 1/8/09	Tue 1/13/09
197	MMS	MMS4_P6: EMS Verified	100%	Thu 1/8/09	Tue 1/13/09
198	MMS	MMS4_P6: CDR Verified	100%	Thu 1/8/09	Tue 1/13/09
199	MMS	MMS4_P6: CMM Verified	100%	Thu 1/8/09	Tue 1/13/09
200	MMS	Deliver MMS4 Patch 6 to iTEST	100%	Tue 1/13/09	Tue 1/13/09
202	MMS	MMS4 Patch 6 complete	100%	Tue 1/13/09	Tue 1/13/09
203	**MMS**	**MMS4 Patch #7**	**0%**	**Fri 1/23/09**	**Thu 2/19/09**

Wed 1/14/09

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ID	Project Name	Task Name	% Complete	Start	Finish
204	**MMS**	**ABB**	**0%**	**Fri 1/23/09**	**Fri 1/23/09**
205	MMS	MMS4 Patch 7 delivered by ABB	0%	Fri 1/23/09	Fri 1/23/09
206	**MMS**	**ERCOT**	**0%**	**Fri 1/23/09**	**Thu 2/19/09**
207	MMS	MMS4_P7:Creation of test procedures for Patch #7	0%	Fri 1/23/09	Thu 1/29/09
208	MMS	MMS4_P7:Analyze & communicate changes from previous release	0%	Fri 1/23/09	Thu 1/29/09
210	MMS	MMS4_P7:MMS DEV build & test	0%	Fri 1/23/09	Thu 1/29/09
211	MMS	MMS4_P7:MMCR creation/submission	0%	Fri 1/23/09	Thu 1/29/09
212	MMS	MMS4_P7:MMS FAT build & test	0%	Fri 1/30/09	Thu 2/19/09
213	**MMS**	**MMS4_P7: Sink/Source Interface Confirmed**	**0%**	**Fri 2/13/09**	**Thu 2/19/09**
214	MMS	MMS4_P7: NMMS Verified	0%	Fri 2/13/09	Thu 2/19/09
215	MMS	MMS4_P7: S&B to/from Verified	0%	Fri 2/13/09	Thu 2/19/09
216	MMS	MMS4_P7: OS Verified	0%	Fri 2/13/09	Thu 2/19/09
217	MMS	MMS4_P7: CRR Verified	0%	Fri 2/13/09	Thu 2/19/09
218	MMS	MMS4_P7: Registration Verified	0%	Fri 2/13/09	Thu 2/19/09
219	MMS	MMS4_P7: PLATTS (FIP/FOP) Verified	0%	Fri 2/13/09	Thu 2/19/09
220	MMS	MMS4_P7: EDW Verified	0%	Fri 2/13/09	Thu 2/19/09
221	MMS	MMS4_P7: EMS Verified	0%	Fri 2/13/09	Thu 2/19/09
222	MMS	MMS4_P7: CDR Verified	0%	Fri 2/13/09	Thu 2/19/09
223	MMS	MMS4_P7: CMM Verified	0%	Fri 2/13/09	Thu 2/19/09
224	MMS	Deliver MMS4 Patch 7 to iTEST	0%	Thu 2/19/09	Thu 2/19/09
226	MMS	Deliver MMS4 Patch 7 to EDW	0%	Thu 2/19/09	Thu 2/19/09
228	MMS	MMS4 Patch 7 complete	0%	Thu 2/19/09	Thu 2/19/09
229	MMS	MMS4 complete	0%	Thu 2/19/09	Thu 2/19/09
230	**MMS**	**MMS5**	**2%**	**Fri 1/9/09**	**Mon 8/24/09**
231	**MMS**	**ABB**	**6%**	**Fri 1/9/09**	**Wed 4/15/09**
232	MMS	MMS5: MMS Development based on Validated & Synced CIM Schema & CIM XML File	10%	Fri 1/9/09	Tue 3/10/09
233	MMS	MMS5:pre-FAT	0%	Wed 3/11/09	Wed 4/8/09
234	MMS	MMS5:Release Preparation	0%	Thu 4/9/09	Wed 4/15/09
235	MMS	Deliver MMS5:Release to COMS	0%	Wed 4/15/09	Wed 4/15/09
237	**MMS**	**ERCOT**	**0%**	**Fri 3/6/09**	**Mon 8/24/09**
238	MMS	MMS5:Develop E2E testing scenarios	0%	Thu 4/16/09	Wed 5/6/09
239	MMS	MMS5:Analyze & communicate changes from previous release	0%	Thu 4/16/09	Wed 5/6/09
240	MMS	Deliver MMS5 Assessment of Changes to EIP	0%	Wed 5/6/09	Wed 5/6/09
243	MMS	Receive V1.21 Validated Data Set from NMMS	0%	Fri 3/6/09	Fri 3/6/09
244	MMS	MMS5: MMS install in DEV & smoke test	0%	Thu 4/16/09	Wed 5/6/09

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ID	Project Name	Task Name	% Complete	Start	Finish
245	MMS	MMS5:Write Migration Control Document	0%	Thu 4/16/09	Wed 5/6/09
246	MMS	MMS5: Sink/Source interface confirmation & test	0%	Thu 5/21/09	Thu 6/4/09
247	MMS	MMS5:MMS install in FAT & smoke test	0%	Thu 5/7/09	Thu 5/28/09
248	MMS	Deliver MMS5: Installation in FAT & Smoke Test Complete to EDW	0%	Thu 5/28/09	Thu 5/28/09
252	MMS	MMS5:FAT (Prelim for INT start)	0%	Fri 5/29/09	Fri 7/10/09
253	MMS	Deliver MMS5: Preliminary Release to iTEST	0%	Fri 7/10/09	Fri 7/10/09
254	MMS	MMS5 Prelim iTest Support Identification	0%	Mon 7/13/09	Mon 7/13/09
256	MMS	MMS5: FAT (Final for INT Start)	0%	Tue 7/14/09	Mon 8/24/09
257	MMS	MMS5 "Final" iTest Support Identification	0%	Mon 8/24/09	Mon 8/24/09
258	MMS	Deliver MMS5: Completed Final FAT to iTEST	0%	Mon 8/24/09	Mon 8/24/09
260	**MMS**	**FAT Correction**	**0%**	**Wed 5/27/09**	**Tue 7/28/09**
261	**MMS**	**MMS5 Patch #1**	**0%**	**Wed 5/27/09**	**Tue 6/16/09**
262	**MMS**	**ABB**	**0%**	**Wed 5/27/09**	**Wed 5/27/09**
263	MMS	MMS5 Patch 1 Delivered by ABB	0%	Wed 5/27/09	Wed 5/27/09
264	**MMS**	**ERCOT**	**0%**	**Thu 5/28/09**	**Tue 6/16/09**
265	MMS	MMS5_P1:Analyze & communicate changes from previous release	0%	Thu 5/28/09	Wed 6/3/09
266	MMS	MMS5_P1:Patch load in development	0%	Thu 5/28/09	Tue 6/2/09
267	MMS	MMS5_P1:Development smoke test	0%	Wed 6/3/09	Fri 6/5/09
268	MMS	MMS5_P1:MMCR creation & submission	0%	Wed 6/3/09	Fri 6/5/09
269	MMS	MMS5 Patch 1 Released to FAT	0%	Fri 6/5/09	Fri 6/5/09
270	MMS	MMS5_P1: Patch Installation & Smoke Test	0%	Mon 6/8/09	Tue 6/16/09
271	**MMS**	**MMS5 Patch #2**	**0%**	**Wed 7/8/09**	**Tue 7/28/09**
272	**MMS**	**ABB**	**0%**	**Wed 7/8/09**	**Wed 7/8/09**
273	MMS	MMS5 Patch 2 Delivered by ABB	0%	Wed 7/8/09	Wed 7/8/09
274	**MMS**	**ERCOT**	**0%**	**Thu 7/9/09**	**Tue 7/28/09**
275	MMS	MMS5_P2:Analyze & Communicate changes from previous release	0%	Thu 7/9/09	Wed 7/15/09
276	MMS	MMS5_P2:Patch load in development	0%	Thu 7/9/09	Tue 7/14/09
277	MMS	MMS5_P2:Development smoke test	0%	Wed 7/15/09	Fri 7/17/09
278	MMS	MMS5_P2:MMCR creation & submission	0%	Wed 7/15/09	Fri 7/17/09
279	MMS	MMS5 Patch 2 released to FAT	0%	Fri 7/17/09	Fri 7/17/09
280	MMS	MMS5_P2: Patch Installation & Smoke Test	0%	Mon 7/20/09	Tue 7/28/09
281	MMS	MMS5 complete	0%	Mon 8/24/09	Mon 8/24/09
282	**MMS**	**Maintenance and Support**	**4%**	**Fri 1/9/09**	**Fri 7/30/10**
283	**MMS**	**EMS-MMS Interface**	**17%**	**Fri 1/9/09**	**Fri 3/27/09**
285	MMS	Receive EMS Resources for MMS to EMS Testing from EMS	0%	Wed 2/4/09	Wed 2/4/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
286	MMS	EMS-MMS Interface Development & Testing	30%	Fri 1/9/09	Fri 2/20/09
287	MMS	Deliver Completed EMS-MMS Interface development & Testing to iTEST & EMS	0%	Fri 2/20/09	Fri 2/20/09
290	MMS	MMS Interface Development & Unit Testing in DEV Environments	0%	Mon 2/23/09	Fri 2/27/09
291	MMS	EMS & MMS Inter-Project Interfacing Testing in DEV Environments	0%	Mon 3/2/09	Fri 3/13/09
292	MMS	OS 2.1 Project Testing with EMS & MMS	0%	Mon 3/16/09	Tue 3/24/09
293	MMS	Create MMCR for EMS-MMS interface updates to iTEST	0%	Wed 3/25/09	Fri 3/27/09
294	MMS	Delever MMCR for EMS-MMS interface to iTest	0%	Fri 3/27/09	Fri 3/27/09
296	**MMS**	**Phase 2 Validation of NMMS**	**0%**	**Tue 8/25/09**	**Mon 10/12/09**
297	MMS	Perform & Resolve Issues	0%	Tue 8/25/09	Thu 10/8/09
298	MMS	Prepare Report	0%	Fri 10/9/09	Mon 10/12/09
300	MMS	Deliver Data Consistency Stage 2 Validation Completed to iTEST	0%	Mon 10/12/09	Mon 10/12/09
302	**MMS**	**Post-MMS5 / Pre-168 hr test**	**0%**	**Fri 8/28/09**	**Fri 7/30/10**
303	MMS	MMS5_Final_P3 (Defect Patch) - 9/1/009	0%	Fri 8/28/09	Fri 10/2/09
304	MMS	MMS5_final_P4 (Defect Patch) - 11/2/09	0%	Mon 11/2/09	Tue 12/8/09
305	MMS	MMS5_final_P5 (Defect Patch) - 1/4/10	0%	Mon 1/4/10	Fri 1/29/10
306	MMS	MMS5_final_P6 (Defect Patch) - 3/1/10	0%	Mon 3/1/10	Fri 3/26/10
307	MMS	MMS5_final_P7 (Defect Patch) - 5/3/10	0%	Mon 5/3/10	Mon 5/31/10
308	MMS	MMS5_final_P8 (Defect Patch) - 7/5/10	0%	Mon 7/5/10	Fri 7/30/10
309	**MMS**	**Documentaion, Mgt, Transition**	**40%**	**Sun 6/1/08**	**Thu 8/27/09**
310	**MMS**	**MPIM**	**0%**	**Mon 7/13/09**	**Mon 7/20/09**
311	MMS	Configure Application for “production” (Data corrections, test data removed, test users removed, etc.)	0%	Mon 7/13/09	Tue 7/14/09
312	MMS	Link/portlet available on MIS	0%	Mon 7/13/09	Mon 7/13/09
313	MMS	Site Minder configured to allow access	0%	Tue 7/14/09	Tue 7/14/09
314	MMS	Application pointed to production LDAP or Stage Table	0%	Tue 7/14/09	Tue 7/14/09
315	MMS	Production Verification	0%	Tue 7/14/09	Mon 7/20/09
316	MMS	List of Users & roles bulk loaded into MPIM	0%	Tue 7/14/09	Tue 7/14/09
317	MMS	Deliver Go-Live Activities to MPIM	0%	Mon 7/20/09	Mon 7/20/09
318	**MMS**	**ERT**	**28%**	**Mon 6/2/08**	**Thu 8/27/09**
319	MMS	Process modeling	100%	Mon 6/2/08	Fri 6/27/08
320	MMS	Support to other groups wrt other MMS ERT activities	0%	Thu 4/16/09	Wed 5/6/09
321	MMS	Training - quick reference guide development & deployment	0%	Thu 4/16/09	Wed 5/6/09
322	MMS	Training - work with ABB to "design" & schedule	0%	Thu 4/16/09	Wed 4/29/09
323	**MMS**	**Training Delivery**	**0%**	**Tue 8/25/09**	**Thu 8/27/09**
324	MMS	APP support training	0%	Tue 8/25/09	Thu 8/27/09
325	MMS	User Session 1	0%	Tue 8/25/09	Thu 8/27/09

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ID	Project Name	Task Name	% Complete	Start	Finish
326	MMS	User Session 2	0%	Tue 8/25/09	Thu 8/27/09
327	MMS	Lite Session 1	0%	Tue 8/25/09	Tue 8/25/09
328	MMS	Lite Session 2	0%	Tue 8/25/09	Tue 8/25/09
329	MMS	MER/Market Training	0%	Mon 8/24/09	Mon 8/24/09
330	**MMS**	**ARTIFACTS**	**93%**	**Sun 6/1/08**	**Mon 4/20/09**
331	**MMS**	**Requirements documents**	**100%**	**Sun 6/1/08**	**Sun 6/1/08**
332	**MMS**	**Overall**	**100%**	**Sun 6/1/08**	**Sun 6/1/08**
333	MMS	Overall Baseline 0	100%	Sun 6/1/08	Sun 6/1/08
334	MMS	Overall Baseline 1 & 2	100%	Sun 6/1/08	Sun 6/1/08
335	**MMS**	**SCED**	**100%**	**Sun 6/1/08**	**Sun 6/1/08**
336	MMS	SCED Baseline 0	100%	Sun 6/1/08	Sun 6/1/08
337	MMS	SCED Baseline 1 & 2	100%	Sun 6/1/08	Sun 6/1/08
338	**MMS**	**DAM**	**100%**	**Sun 6/1/08**	**Sun 6/1/08**
339	MMS	DAM Baseline 0	100%	Sun 6/1/08	Sun 6/1/08
340	MMS	DAM Baseline 1 & 2	100%	Sun 6/1/08	Sun 6/1/08
341	**MMS**	**RUC**	**100%**	**Sun 6/1/08**	**Sun 6/1/08**
342	MMS	RUC Baseline 0	100%	Sun 6/1/08	Sun 6/1/08
343	MMS	RUC Baseline 1 & 2	100%	Sun 6/1/08	Sun 6/1/08
344	**MMS**	**CCT**	**100%**	**Sun 6/1/08**	**Sun 6/1/08**
345	MMS	CCT Baseline 0	100%	Sun 6/1/08	Sun 6/1/08
346	MMS	CCT Baseline 1 & 2	100%	Sun 6/1/08	Sun 6/1/08
347	**MMS**	**CSD**	**100%**	**Sun 6/1/08**	**Sun 6/1/08**
348	MMS	CSD Baseline 0	100%	Sun 6/1/08	Sun 6/1/08
349	MMS	CSDBaseline 1& 2	100%	Sun 6/1/08	Sun 6/1/08
350	**MMS**	**Use Cases**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
351	**MMS**	**MI**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
352	MMS	Baseline 0	100%	Mon 6/2/08	Mon 6/2/08
353	MMS	Baseline 1 & 2	100%	Mon 6/2/08	Mon 6/2/08
354	**MMS**	**MA**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
355	MMS	Baseline 0	100%	Mon 6/2/08	Mon 6/2/08
356	MMS	Baseline 1& 2	100%	Mon 6/2/08	Mon 6/2/08
357	**MMS**	**Test plans, cases & scripts**	**89%**	**Sun 6/1/08**	**Wed 3/11/09**
358	MMS	MMS1 (accelerated SCED)	100%	Sun 6/1/08	Mon 6/2/08
359	MMS	MMS2	100%	Sun 6/1/08	Mon 6/2/08
360	MMS	MMS3	100%	Sun 6/1/08	Mon 6/2/08

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ID	Project Name	Task Name	% Complete	Start	Finish
361	MMS	MMS4	100%	Sun 6/1/08	Mon 6/2/08
362	MMS	MMS5:Test Plans, Cases, & Scripts	0%	Wed 3/11/09	Wed 3/11/09
363	**MMS**	**Design / functional specs**	**15%**	**Mon 6/2/08**	**Mon 4/20/09**
364	MMS	MMS1 (accelerated SCED)	100%	Mon 6/2/08	Mon 6/2/08
365	MMS	MMS2	100%	Mon 6/2/08	Mon 6/2/08
366	MMS	MMS3	100%	Mon 6/2/08	Mon 6/2/08
367	MMS	MMS4	100%	Mon 6/2/08	Mon 6/2/08
368	MMS	MMS5	100%	Mon 6/2/08	Mon 6/2/08
369	MMS	System Monitoring	0%	Wed 3/11/09	Mon 4/20/09
370	**MMS**	**Process & Procedures**	**100%**	**Mon 6/2/08**	**Tue 11/11/08**
371	**MMS**	**Operating**	**100%**	**Mon 6/2/08**	**Tue 11/11/08**
372	**MMS**	**Day-Ahead Market (DAM)**	**100%**	**Mon 6/2/08**	**Mon 10/13/08**
373	MMS	DAM:Create Process Map	100%	Mon 6/2/08	Tue 6/17/08
374	MMS	DAM:Create OP document "draft"	100%	Mon 6/30/08	Fri 8/1/08
375	MMS	DAM:SME Review OP document	100%	Mon 8/4/08	Fri 8/8/08
376	MMS	DAM:Present OP to TPTF	100%	Mon 8/11/08	Mon 8/11/08
377	MMS	DAM:Revise & Review OP document	100%	Mon 9/8/08	Mon 10/13/08
378	MMS	DAM:"Finalize" OP document	100%	Mon 10/13/08	Mon 10/13/08
379	**MMS**	**Reliability Unit Commitment (RUC)**	**100%**	**Mon 6/2/08**	**Mon 11/10/08**
380	MMS	Ruc:Create Process Map	100%	Mon 6/2/08	Tue 6/17/08
381	MMS	RUC:Create OP document "draft"	100%	Mon 6/30/08	Tue 8/19/08
382	MMS	RUC:SME Review OP document	100%	Wed 8/20/08	Tue 8/26/08
383	MMS	RUC:Present OP to TPTF	100%	Wed 8/27/08	Wed 8/27/08
384	MMS	RUC:Revise & Review OP document	100%	Mon 9/15/08	Mon 11/10/08
385	MMS	RUC:"Finalize" OP document	100%	Mon 11/10/08	Mon 11/10/08
386	**MMS**	**Real-Time Market (RTM)**	**100%**	**Mon 6/30/08**	**Tue 11/11/08**
387	MMS	RTM:Create Process Map	100%	Tue 9/9/08	Wed 9/24/08
388	MMS	RTM:Create OP document "draft"	100%	Mon 6/30/08	Thu 10/2/08
389	MMS	RTM:SME Review OP document	100%	Wed 9/17/08	Tue 9/23/08
390	MMS	RTM:Present OP to TPTF	100%	Mon 11/10/08	Mon 11/10/08
391	MMS	RTM:Revise & Review OP document	100%	Tue 11/11/08	Tue 11/11/08
392	MMS	RTM:"Finalize" OP document	100%	Tue 11/11/08	Tue 11/11/08
393	**MMS**	**Adjustment Period (ADJ)**	**100%**	**Mon 6/2/08**	**Mon 11/10/08**
394	MMS	ADJ:Create Process Map	100%	Mon 6/2/08	Tue 9/9/08
395	MMS	ADJ:Create OP document "draft"	100%	Mon 6/30/08	Tue 9/9/08

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ID	Project Name	Task Name	% Complete	Start	Finish
396	MMS	ADJ:SME Review OP document	100%	Wed 9/10/08	Mon 9/22/08
397	MMS	ADJ:Present OP to TPTF	100%	Mon 9/22/08	Mon 9/22/08
398	MMS	ADJ:Revise & Review OP document	100%	Tue 9/23/08	Mon 11/10/08
399	MMS	ADJ:"Finalize" OP document	100%	Mon 11/10/08	Mon 11/10/08
400	MMS	Operating procedure complete	100%	Tue 11/11/08	Tue 11/11/08
401	**MMS**	**Administration**	**100%**	**Sun 6/1/08**	**Mon 8/11/08**
402	**MMS**	**ABB SOW's**	**100%**	**Sun 6/1/08**	**Mon 8/11/08**
403	MMS	Amendement 9	100%	Sun 6/1/08	Sun 6/1/08
404	MMS	Amendment 10	100%	Tue 6/3/08	Mon 8/11/08
405	**MMS**	**Change Control**	**0%**	**Wed 3/11/09**	**Wed 7/29/09**
406	**MMS**	**NPRRs**	**0%**	**Wed 3/11/09**	**Wed 7/29/09**
407	MMS	NPRR091 – Scarcity Pricing & Mitigated Offer Cap	0%	Wed 3/11/09	Wed 7/29/09
408	MMS	NPRR102 – Implementation of PUCT 25.505(f), Publication of Resource & Load Information	0%	Thu 4/9/09	Fri 7/24/09
409	MMS	NPRR113 – Ancillary service trades with ERCOT	0%	Wed 3/11/09	Wed 7/29/09
410	MMS	NPRR124 - Resource Node Update Definition	0%	Wed 3/11/09	Wed 7/29/09
411	MMS	NPRR128 – CCP Blocks with Multiple Voltages	0%	Wed 3/11/09	Wed 7/29/09
412	MMS	NPRR131 – Ancillary Service Trades with ERCOT	0%	Wed 3/11/09	Wed 7/29/09
413	MMS	NPRR134 – Section 7 Cleanup: FGR processing	0%	Wed 3/11/09	Wed 7/29/09
414	**MMS**	**MMS Market Manager (MM) User Interface**	**78%**	**Sun 6/1/08**	**Thu 5/21/09**
415	MMS	MMS UI - Project Start	100%	Sun 6/1/08	Sun 6/1/08
416	**MMS**	**Dependencies**	**99%**	**Fri 8/15/08**	**Wed 2/4/09**
417	MMS	EIP 1.16 (Resource Parameters Submissions)	100%	Fri 8/15/08	Mon 8/18/08
418	MMS	EIP 1.17 available (Notifications, Synchronous transmissions, Failed transmissions, Extended Query, Wildcards)	100%	Thu 10/16/08	Thu 10/16/08
419	MMS	EIP 1.18 available (If Needed)	0%	Wed 2/4/09	Wed 2/4/09
420	MMS	MMS4_P3 available	100%	Mon 8/18/08	Mon 8/18/08
421	MMS	MMS4_P4 available	100%	Tue 9/30/08	Tue 9/30/08
422	MMS	MMS4_P5 available	100%	Wed 10/22/08	Wed 10/22/08
423	**MMS**	**Analysis & Design**	**100%**	**Thu 7/31/08**	**Fri 10/17/08**
424	**MMS**	**Create Wireframes/HTML**	**100%**	**Thu 7/31/08**	**Mon 9/15/08**
425	**MMS**	**Trades**	**100%**	**Thu 7/31/08**	**Fri 8/29/08**
426	MMS	Trades:HTML:Queries	100%	Thu 7/31/08	Fri 8/29/08
427	MMS	Trades:HTML:Confirmed/Unconfirmed	100%	Thu 7/31/08	Fri 8/29/08
428	MMS	Trades:HTML:Energy	100%	Thu 7/31/08	Fri 8/29/08
429	MMS	Trades:HTML:Capacity	100%	Thu 7/31/08	Fri 8/29/08
430	MMS	Trades:HTML:AS	100%	Thu 7/31/08	Fri 8/29/08

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ID	Project Name	Task Name	% Complete	Start	Finish
431	MMS	Trades HTML Complete	100%	Fri 8/29/08	Fri 8/29/08
432	**MMS**	**Resource Specific Submissions (RSS)**	**100%**	**Thu 7/31/08**	**Fri 8/29/08**
433	MMS	RSS:HTML:Queries	100%	Thu 7/31/08	Fri 8/29/08
434	MMS	RSS:HTML:Current Operating Plan (COP)	100%	Thu 7/31/08	Fri 8/29/08
435	MMS	RSS:HTML:Three-Part Offer/Energy Only Offer Curve	100%	Thu 7/31/08	Fri 8/29/08
436	MMS	RSS:HTML:Output Schedule	100%	Thu 7/31/08	Fri 8/29/08
437	MMS	RSS:HTML:AS Offer	100%	Thu 7/31/08	Fri 8/29/08
438	MMS	RSS:HTML:Inc/Dec Energy Offer Curve	100%	Thu 7/31/08	Fri 8/29/08
439	MMS	RSS:HTML:Resource Parameters	100%	Thu 7/31/08	Fri 8/29/08
440	MMS	Resource Specific Submissions (RSS) HTML Complete	100%	Fri 8/29/08	Fri 8/29/08
441	**MMS**	**Bids & Offers**	**100%**	**Thu 7/31/08**	**Fri 8/29/08**
442	MMS	Bids & Offers:HTML:Queries	100%	Thu 7/31/08	Fri 8/29/08
443	MMS	Bids & Offers:HTML:DAM Energy-Only Offer Curve	100%	Thu 7/31/08	Fri 8/29/08
444	MMS	Bids & Offers:HTML:CRR Offer	100%	Thu 7/31/08	Fri 8/29/08
445	MMS	Bids & Offers:HTML:DAM Energy Bid	100%	Thu 7/31/08	Fri 8/29/08
446	MMS	Bids & Offers:HTML:PTP Obligation Bid	100%	Thu 7/31/08	Fri 8/29/08
447	MMS	Bids & Offers HTML Complete	100%	Fri 8/29/08	Fri 8/29/08
448	**MMS**	**Schedules**	**100%**	**Thu 7/31/08**	**Fri 8/29/08**
449	MMS	Schedules:HTML:Queries	100%	Thu 7/31/08	Fri 8/29/08
450	MMS	Schedules:HTML:Self-Schedule	100%	Thu 7/31/08	Fri 8/29/08
451	MMS	Schedules:HTMLDC Ties	100%	Thu 7/31/08	Fri 8/29/08
452	MMS	Schedules HTML Complete	100%	Fri 8/29/08	Fri 8/29/08
453	**MMS**	**Self-Arranged AS**	**100%**	**Thu 7/31/08**	**Fri 8/29/08**
454	MMS	Self-Arranged AS:HTML:Self-Arranged AS	100%	Thu 7/31/08	Fri 8/29/08
455	MMS	Self-Arranged AS:HTML:Queries	100%	Thu 7/31/08	Fri 8/29/08
456	MMS	Self-Arranged AS HTML Complete	100%	Fri 8/29/08	Fri 8/29/08
457	**MMS**	**Awards**	**100%**	**Thu 7/31/08**	**Fri 8/29/08**
458	MMS	Awards:HTML:Awards	100%	Thu 7/31/08	Fri 8/29/08
459	MMS	Awards:HTML:Queries	100%	Thu 7/31/08	Fri 8/29/08
460	MMS	Awards HTML Complete	100%	Fri 8/29/08	Fri 8/29/08
461	**MMS**	**Notices**	**100%**	**Thu 7/31/08**	**Fri 8/29/08**
462	MMS	Notices:HTML:Notices	100%	Thu 7/31/08	Fri 8/29/08
463	MMS	Notices:HTML:Queries	100%	Thu 7/31/08	Fri 8/29/08
464	MMS	Notices HTML Complete	100%	Fri 8/29/08	Fri 8/29/08
465	**MMS**	**Verbal Dispatch Instructions (VDI)**	**100%**	**Wed 9/10/08**	**Fri 9/12/08**

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ID	Project Name	Task Name	% Complete	Start	Finish
466	MMS	VDI:HTML:Verbal Dispatch Instructions	100%	Wed 9/10/08	Fri 9/12/08
467	MMS	VDI:HTML:Queries	100%	Wed 9/10/08	Fri 9/12/08
468	MMS	VDI HTML Complete	100%	Mon 9/15/08	Mon 9/15/08
469	MMS	Finalize Wireframes/HTML Design	100%	Mon 9/15/08	Mon 9/15/08
470	**MMS**	**Document Requirements**	**100%**	**Tue 9/2/08**	**Fri 10/17/08**
471	**MMS**	**Bids & Offers**	**100%**	**Tue 9/2/08**	**Fri 9/5/08**
472	MMS	Bids & Offers:REQ:Queries	100%	Tue 9/2/08	Fri 9/5/08
473	MMS	Bids & Offers:REQ:DAM Energy-Only Offer Curve	100%	Tue 9/2/08	Fri 9/5/08
474	MMS	Bids & Offers:REQ:CRR Offer	100%	Tue 9/2/08	Fri 9/5/08
475	MMS	Bids & Offers:REQ:DAM Energy Bid	100%	Tue 9/2/08	Fri 9/5/08
476	MMS	Bids & Offers:REQ:PTP Obligation Bid	100%	Tue 9/2/08	Fri 9/5/08
477	MMS	"Bids & Offers" Requirements Complete	100%	Fri 9/5/08	Fri 9/5/08
478	**MMS**	**Resource Specific Submissions**	**100%**	**Tue 9/2/08**	**Fri 9/12/08**
479	MMS	RSS:REQ:Queries	100%	Tue 9/2/08	Fri 9/12/08
480	MMS	RSS:REQ:Current Operating Plan (COP)	100%	Tue 9/2/08	Fri 9/12/08
481	MMS	RSS:REQ:Three-Part Offer/Energy Only Offer Curve	100%	Tue 9/2/08	Fri 9/12/08
482	MMS	RSS:REQ:Output Schedule	100%	Tue 9/2/08	Fri 9/12/08
483	MMS	RSS:REQ:AS Offer	100%	Tue 9/2/08	Fri 9/12/08
484	MMS	RSS:REQ:Inc/Dec Energy Offer Curve	100%	Tue 9/2/08	Fri 9/12/08
485	MMS	RSS:REQ:Resource Parameters	100%	Tue 9/2/08	Fri 9/12/08
486	MMS	"Resource Specific Submissions" Requirements Complete	100%	Fri 9/12/08	Fri 9/12/08
487	**MMS**	**Schedules**	**100%**	**Tue 9/2/08**	**Fri 9/19/08**
488	MMS	Schedules:REQ:Queries	100%	Tue 9/2/08	Fri 9/19/08
489	MMS	Schedules:REQ:Self-Schedule	100%	Tue 9/2/08	Fri 9/19/08
490	MMS	Schedules:REQ:DC Tie	100%	Tue 9/2/08	Fri 9/19/08
491	MMS	"Schedules" Requirements Complete	100%	Fri 9/19/08	Fri 9/19/08
492	**MMS**	**Self-Arranged AS**	**100%**	**Tue 9/2/08**	**Fri 9/19/08**
493	MMS	Self-Arranged AS:REQ:Self-Arranged AS	100%	Tue 9/2/08	Fri 9/19/08
494	MMS	Self-Arranged AS:REQ:Queries	100%	Tue 9/2/08	Fri 9/19/08
495	MMS	"Self-Arranged AS" Requirements Complete	100%	Fri 9/19/08	Fri 9/19/08
496	**MMS**	**Trades**	**100%**	**Tue 9/2/08**	**Fri 9/26/08**
497	MMS	Trades:REQ:Queries	100%	Tue 9/2/08	Fri 9/26/08
498	MMS	Trades:REQ:Confirmed/Unconfirmed	100%	Tue 9/2/08	Fri 9/26/08
499	MMS	Trades:REQ:Energy	100%	Tue 9/2/08	Fri 9/26/08
500	MMS	Trades:REQ:Capacity	100%	Tue 9/2/08	Fri 9/26/08

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ID	Project Name	Task Name	% Complete	Start	Finish
501	MMS	Trades:REQ:AS	100%	Tue 9/2/08	Fri 9/26/08
502	MMS	"Trades" Requirements Complete	100%	Fri 9/26/08	Fri 9/26/08
503	**MMS**	**Awards**	**100%**	**Tue 9/2/08**	**Fri 10/3/08**
504	MMS	Awards:REQ:Awards	100%	Tue 9/2/08	Fri 10/3/08
505	MMS	Awards:REQ:Queries	100%	Tue 9/2/08	Fri 10/3/08
506	MMS	"Awards" Requirements Complete	100%	Fri 10/3/08	Fri 10/3/08
507	**MMS**	**Notices**	**100%**	**Tue 9/2/08**	**Fri 10/3/08**
508	MMS	Notices:REQ:Notices	100%	Tue 9/2/08	Fri 10/3/08
509	MMS	Notices:REQ:Queries	100%	Tue 9/2/08	Fri 10/3/08
510	MMS	"Notices" Requirements Complete	100%	Fri 10/3/08	Fri 10/3/08
511	**MMS**	**Verbal Dispatch Instructions (VDI)**	**100%**	**Mon 9/15/08**	**Fri 10/3/08**
512	MMS	VDI:REQ:Verbal Dispatch Instructions	100%	Mon 9/15/08	Fri 10/3/08
513	MMS	VDI:REQ:Queries	100%	Mon 9/15/08	Fri 10/3/08
514	MMS	"VDI" Requirements Complete	100%	Fri 10/3/08	Fri 10/3/08
515	MMS	Business Rules/Validation	100%	Mon 10/6/08	Fri 10/10/08
516	MMS	Finalize Requirements Document	100%	Mon 10/6/08	Fri 10/17/08
517	MMS	Market Manager "Requirements" Complete	100%	Fri 10/17/08	Fri 10/17/08
518	**MMS**	**Construction & Unit Test (Build)**	**74%**	**Tue 8/19/08**	**Mon 3/16/09**
519	**MMS**	**Bids & Offers**	**100%**	**Tue 9/2/08**	**Fri 10/31/08**
520	**MMS**	**Front-end**	**100%**	**Tue 9/2/08**	**Fri 10/31/08**
521	MMS	Bids & Offers:Build:Queries	100%	Fri 10/17/08	Fri 10/31/08
522	**MMS**	**DAM Energy-Only Offer Curve**	**100%**	**Tue 9/2/08**	**Mon 10/6/08**
523	MMS	Bids & Offers:Build:DAM Energy-Only Offer Curve	100%	Tue 9/2/08	Mon 9/29/08
524	MMS	Bids & Offers:Build:Multi-hour Submissions	100%	Tue 9/16/08	Mon 10/6/08
525	**MMS**	**DAM Energy Bid**	**100%**	**Tue 9/2/08**	**Mon 10/6/08**
526	MMS	Bids & Offers:Build:DAM Energy Bid	100%	Tue 9/2/08	Mon 9/29/08
527	MMS	Bids & Offers:Build:Multi-hour Submissions	100%	Tue 9/16/08	Mon 10/6/08
528	**MMS**	**PTP Obligation Bid**	**100%**	**Tue 9/2/08**	**Mon 10/6/08**
529	MMS	Bids & Offers:Build:PTP Obligation Bid	100%	Tue 9/2/08	Mon 9/29/08
530	MMS	Bids & Offers:Build:Multi-hour Submissions	100%	Tue 9/16/08	Mon 10/6/08
531	**MMS**	**CRR Offers**	**100%**	**Tue 9/2/08**	**Mon 10/6/08**
532	MMS	Bids & Offers:Build:CRR Offers	100%	Tue 9/2/08	Mon 9/29/08
533	MMS	Bids & Offers:Build:Multi-hour Submissions	100%	Tue 9/16/08	Mon 10/6/08
534	MMS	"Bids & Offers" Front-end Complete	100%	Fri 10/31/08	Fri 10/31/08
535	MMS	Bids & Offers:Build:Back-end Web Service	100%	Tue 9/30/08	Tue 10/28/08

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ID	Project Name	Task Name	% Complete	Start	Finish
536	MMS	"Bids & Offers" Released to FAT/iTest	100%	Fri 10/31/08	Fri 10/31/08
537	**MMS**	**Resource Specific Submissions (RSS)**	**100%**	**Tue 10/7/08**	**Tue 11/25/08**
538	**MMS**	**Front-end**	**100%**	**Tue 10/7/08**	**Thu 11/20/08**
539	MMS	RSS:Build:Queries	100%	Fri 10/17/08	Wed 10/29/08
540	MMS	RSS:Build:Current Operating Plan (COP)	100%	Tue 10/7/08	Thu 10/9/08
541	MMS	RSS:Build:Three-Part Offer	100%	Fri 10/10/08	Fri 10/17/08
542	MMS	RSS:Build:Energy Only Offer Curve	100%	Mon 10/20/08	Thu 10/23/08
543	MMS	RSS:Build:Output Schedule	100%	Fri 10/24/08	Fri 10/31/08
544	**MMS**	**AS Offer**	**100%**	**Mon 11/3/08**	**Fri 11/7/08**
545	MMS	RSS:Build:AS Offer	100%	Mon 11/3/08	Fri 11/7/08
546	MMS	RSS:Build:Multi-hour submission	100%	Wed 11/5/08	Wed 11/5/08
547	MMS	RSS:Build:Inc/Dec Energy Offer Curve	100%	Thu 11/6/08	Mon 11/17/08
548	MMS	RSS:Build:Resource Parameters	100%	Thu 11/13/08	Thu 11/20/08
549	MMS	"RSS" Front-end Complete	100%	Mon 11/24/08	Mon 11/24/08
550	MMS	RSS:Buuild:Back-end Web Service	100%	Wed 10/29/08	Tue 11/25/08
551	MMS	"Resource Specific Submissions" Released to Pre-FAT	100%	Tue 11/25/08	Tue 11/25/08
552	**MMS**	**Schedules**	**100%**	**Fri 10/17/08**	**Thu 12/11/08**
553	**MMS**	**Front-end**	**100%**	**Fri 10/17/08**	**Fri 12/5/08**
554	MMS	Schedules:Build:Queries	100%	Fri 10/17/08	Fri 10/31/08
555	MMS	Schedules:Build:DC Ties	100%	Tue 11/25/08	Thu 12/4/08
556	MMS	Schedules:Build:Self-Schedule	100%	Fri 12/5/08	Fri 12/5/08
557	MMS	"Schedules" Front-end Complete	100%	Fri 12/5/08	Fri 12/5/08
558	MMS	Schedules:Build:Back-end Web Services	100%	Mon 12/1/08	Thu 12/11/08
559	MMS	"Schedules" Released to Pre-FAT	100%	Thu 12/11/08	Thu 12/11/08
560	**MMS**	**Self-Arranged AS**	**100%**	**Fri 10/17/08**	**Wed 12/17/08**
561	**MMS**	**Front-end**	**100%**	**Fri 10/17/08**	**Wed 12/10/08**
562	MMS	Self-Arranges AS:Build:Queries	100%	Fri 10/17/08	Fri 10/31/08
563	MMS	Self-Arranged AS:Build:Self-Arranged AS	100%	Mon 12/8/08	Wed 12/10/08
564	MMS	"Self-Arranged AS" Front-end Complete	100%	Wed 12/10/08	Wed 12/10/08
565	MMS	Self-Arranged AS:Build:Back-end Web Services	100%	Fri 12/12/08	Wed 12/17/08
566	MMS	"Self-Arranged AS" Released to Pre-FAT	100%	Wed 12/17/08	Wed 12/17/08
567	**MMS**	**Trades**	**81%**	**Fri 10/17/08**	**Wed 1/21/09**
568	**MMS**	**Front-end**	**79%**	**Fri 10/17/08**	**Wed 1/21/09**
569	MMS	Trades:Build:Queries	100%	Fri 10/17/08	Fri 10/31/08
570	MMS	Trades:Build:Confirmed/Unconfirmed	100%	Thu 12/11/08	Mon 12/15/08

Wed 1/14/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
571	MMS	Trades:Build:Energy	100%	Thu 12/11/08	Thu 12/18/08
572	MMS	Trades:Build:Capacity	100%	Thu 12/11/08	Mon 1/5/09
573	MMS	Trades:Build:AS	100%	Thu 12/11/08	Fri 1/9/09
574	**MMS**	**Client-side Validation 1**	**50%**	**Wed 1/14/09**	**Wed 1/21/09**
575	MMS	Trades:Build:Client-side validation	50%	Wed 1/14/09	Wed 1/21/09
576	MMS	Bids & Offers:Build:Client-side validation	50%	Wed 1/14/09	Wed 1/21/09
577	MMS	Resource Specific Submissions (RSS):Client-side validation	50%	Wed 1/14/09	Wed 1/21/09
578	MMS	Schedules:Build:Client-side validation	50%	Wed 1/14/09	Wed 1/21/09
579	MMS	Self-Arranged AS:Build:Client-side validation	50%	Wed 1/14/09	Wed 1/21/09
580	MMS	"Trades" Front-end Complete	0%	Wed 1/21/09	Wed 1/21/09
581	MMS	Trades:Build:Back-end Web Service	100%	Thu 12/18/08	Fri 1/9/09
582	MMS	"Trades" Released to Pre-FAT	0%	Wed 1/21/09	Wed 1/21/09
583	**MMS**	**Awards**	**50%**	**Fri 10/17/08**	**Thu 1/29/09**
584	**MMS**	**Front-end**	**65%**	**Fri 10/17/08**	**Thu 1/29/09**
585	MMS	Awards:Build:Queries	100%	Fri 10/17/08	Fri 10/31/08
586	MMS	Awards:Build:Awards	0%	Thu 1/22/09	Tue 1/27/09
587	MMS	Awards:Build:Client-side validation	0%	Wed 1/28/09	Thu 1/29/09
588	MMS	"Awards" Front-end Complete	0%	Thu 1/29/09	Thu 1/29/09
589	MMS	Awards:Build:Back-end Web Services	25%	Mon 1/12/09	Fri 1/23/09
590	MMS	"Awards" Released to Pre-FAT	0%	Thu 1/29/09	Thu 1/29/09
591	**MMS**	**Notices**	**48%**	**Fri 10/17/08**	**Mon 2/9/09**
592	**MMS**	**Front-end**	**65%**	**Fri 10/17/08**	**Fri 2/6/09**
593	MMS	Notices:Build:Queries	100%	Fri 10/17/08	Fri 10/31/08
594	MMS	Notices:Build:Notices	0%	Fri 1/30/09	Wed 2/4/09
595	MMS	Notices:Build:Client-side validation	0%	Thu 2/5/09	Fri 2/6/09
596	MMS	"Notices" Front-end Complete	0%	Fri 2/6/09	Fri 2/6/09
597	MMS	Notices:Build:Back-end Web Services	0%	Mon 1/26/09	Fri 1/30/09
598	MMS	MMCR Readiness (Notices)	0%	Mon 2/9/09	Mon 2/9/09
599	MMS	"Notices" Released to Pre-FAT	0%	Mon 2/9/09	Mon 2/9/09
600	**MMS**	**Verbal Dispatch Instructions (VDI)**	**41%**	**Fri 10/17/08**	**Mon 2/16/09**
601	**MMS**	**Front-end**	**65%**	**Fri 10/17/08**	**Mon 2/16/09**
602	MMS	VDI:Build:Queries	100%	Fri 10/17/08	Fri 10/31/08
603	MMS	VDI:Build:Notices	0%	Mon 2/9/09	Thu 2/12/09
604	MMS	VDI:Build:Client-side validation	0%	Fri 2/13/09	Mon 2/16/09
605	MMS	"VDI" Front-end Complete	0%	Mon 2/16/09	Mon 2/16/09

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ID	Project Name	Task Name	% Complete	Start	Finish
606	MMS	VDI:Build:Back-end Web Services	0%	Mon 2/2/09	Fri 2/13/09
607	MMS	"VDI" Released to Pre-FAT	0%	Mon 2/16/09	Mon 2/16/09
608	**MMS**	**Maintenance & Enhancements Features**	**0%**	**Mon 2/2/09**	**Mon 3/16/09**
609	MMS	EIP v1.17 Refactoring	0%	Mon 2/2/09	Fri 2/27/09
610	MMS	Policy Manager Adherence	0%	Tue 2/17/09	Mon 3/16/09
611	MMS	Mimic Duns	0%	Tue 2/17/09	Mon 3/16/09
612	MMS	Role-based Security	0%	Tue 2/17/09	Mon 3/16/09
613	**MMS**	**MMUI_Refactoring**	**73%**	**Tue 8/19/08**	**Wed 2/25/09**
614	MMS	MMS4_P3	100%	Tue 8/19/08	Tue 9/9/08
615	MMS	MMS4_P4	100%	Wed 10/1/08	Fri 10/17/08
616	MMS	MMS4_P5	100%	Thu 10/23/08	Fri 11/21/08
617	MMS	MMS4_P6	100%	Tue 12/2/08	Mon 12/8/08
618	MMS	MMS4_P7	0%	Fri 1/30/09	Thu 2/5/09
619	MMS	EIP v1.18	0%	Thu 2/5/09	Wed 2/25/09
620	**MMS**	**Market Manager Test**	**35%**	**Wed 11/12/08**	**Thu 4/9/09**
621	**MMS**	**Market Manager Testing**	**35%**	**Wed 11/12/08**	**Thu 4/9/09**
622	**MMS**	**MM(1) Pre-FAT**	**93%**	**Wed 11/12/08**	**Fri 1/23/09**
623	MMS	Pre-FAT:Bids & Offers	100%	Wed 11/12/08	Tue 12/9/08
624	MMS	Pre-FAT:Resource Specific Submissions	100%	Mon 12/1/08	Fri 12/12/08
625	MMS	Pre-FAT:Schedules	100%	Mon 12/15/08	Wed 1/7/09
626	MMS	Pre-FAT:Self-Arranged AS	100%	Thu 12/18/08	Fri 1/9/09
627	MMS	MMCR Prepared & Submitted (Bids & Offers, Resources, Specific Submissions, Schedules, Self-Arranged AS)	0%	Wed 1/21/09	Fri 1/23/09
628	**MMS**	**MM(2) Pre-FAT**	**0%**	**Thu 1/22/09**	**Thu 3/5/09**
629	MMS	Pre-FAT:Trades	0%	Thu 1/22/09	Wed 2/4/09
630	MMS	Pre-FAT:Awards	0%	Fri 1/30/09	Thu 2/12/09
631	MMS	Pre-FAT:Notices	0%	Tue 2/10/09	Mon 2/23/09
632	MMS	Pre-FAT:VDI	0%	Tue 2/17/09	Mon 3/2/09
633	MMS	MMCR Prepared & Submitted (Trades, Awards, Notices, VDI)	0%	Tue 3/3/09	Thu 3/5/09
634	**MMS**	**FAT**	**0%**	**Mon 1/26/09**	**Thu 3/26/09**
635	MMS	Market Manager 1: FAT Build & Installation	0%	Mon 1/26/09	Mon 1/26/09
636	MMS	Market Manager 1: FAT	0%	Tue 1/27/09	Wed 2/4/09
637	MMS	Market Manager 2: FAT Build & Installation	0%	Fri 3/6/09	Thu 3/12/09
638	MMS	Market Manager 2: FAT	0%	Fri 3/13/09	Thu 3/26/09
639	MMS	Deliver MM UI to iTEST	0%	Thu 3/26/09	Thu 3/26/09
641	MMS	Market Manager Defect Management	0%	Fri 3/27/09	Thu 4/9/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
642	MMS	Market Manager FAT Complete	0%	Thu 4/9/09	Thu 4/9/09
643	**MMS**	**Integration**	**0%**	**Thu 5/21/09**	**Thu 5/21/09**
644	MMS	Itest Support	0%	Thu 5/21/09	Thu 5/21/09
645	MMS	EDS Support	0%	Thu 5/21/09	Thu 5/21/09
646	**MMS**	**Transition Activities**	**23%**	**Mon 10/20/08**	**Thu 5/21/09**
647	MMS	Port to Jboss	0%	Fri 4/10/09	Thu 5/21/09
648	**MMS**	**Training**	**0%**	**Fri 4/10/09**	**Thu 4/23/09**
649	MMS	User Product Training	0%	Fri 4/10/09	Thu 4/23/09
650	**MMS**	**Project Documentation**	**27%**	**Mon 10/20/08**	**Thu 5/21/09**
651	**MMS**	**Other Artifacts**	**27%**	**Mon 10/20/08**	**Thu 5/21/09**
652	MMS	Detail design	10%	Mon 10/20/08	Fri 2/27/09
653	MMS	Market Manager User Guide	0%	Tue 2/17/09	Thu 5/21/09
654	**MMS**	**Test documentation**	**100%**	**Mon 10/20/08**	**Wed 1/7/09**
655	MMS	Test Scripts	100%	Mon 10/20/08	Wed 1/7/09
656	MMS	MMS UI Project End	0%	Thu 5/21/09	Thu 5/21/09
657	MMS	MMS Project End	0%	Fri 7/30/10	Fri 7/30/10
4	**Nodal IPS**	**NMMS - Network Model Management System**	**71%**	**Sun 6/1/08**	**Thu 9/3/09**
1	NMMS	NMMS Replan Start	100%	Mon 6/2/08	Tue 6/10/08
2	**NMMS**	**Single Entry Model (SEM) Go Live**	**76%**	**Sun 6/1/08**	**Thu 9/3/09**
3	**NMMS**	**NMMS 4 (EMA 1F1 + PTI R2)**	**100%**	**Wed 6/11/08**	**Tue 9/30/08**
4	NMMS	Receive NMMS 4 from Siemens	100%	Wed 6/11/08	Tue 6/17/08
5	NMMS	Install NMMS 4 (EMA 1F1 + PTI R2)	100%	Fri 6/20/08	Tue 6/24/08
6	NMMS	Create & Submit MMCR	100%	Tue 8/12/08	Thu 8/14/08
7	NMMS	FAT NMMS 4 EMA 1F1	100%	Fri 8/15/08	Tue 9/30/08
8	NMMS	FAT NMMS 4 PTI R2	100%	Wed 6/25/08	Fri 8/8/08
9	NMMS	Manage Defects	100%	Fri 8/15/08	Tue 9/30/08
10	NMMS	NMMS 4 (EMA 1F1 + PTI R2) Installed & Tested	100%	Tue 9/30/08	Tue 9/30/08
11	NMMS	Deliver NMMS 4 to EDS	100%	Tue 9/30/08	Tue 9/30/08
13	**NMMS**	**Conduct Performance Test**	**0%**	**Wed 6/24/09**	**Wed 7/22/09**
15	NMMS	Issue Market Notice to Indicate Suggested Date	0%	Wed 6/24/09	Wed 6/24/09
16	NMMS	Confirm Date & Schedule Resources	0%	Thu 6/25/09	Wed 7/1/09
17	NMMS	Review Scenarios	0%	Thu 7/2/09	Wed 7/8/09
18	NMMS	Set-up Environment for Test	0%	Thu 7/9/09	Fri 7/10/09
19	NMMS	Conduct Test	0%	Mon 7/13/09	Mon 7/13/09
20	NMMS	Prepare Test Results	0%	Tue 7/14/09	Tue 7/14/09

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ID	Project Name	Task Name	% Complete	Start	Finish
21	NMMS	Discuss Results with Siemens	0%	Wed 7/15/09	Wed 7/15/09
22	NMMS	Resolve Performance Issues	0%	Thu 7/16/09	Wed 7/22/09
23	NMMS	NMMS Performance Test Completed	0%	Wed 7/22/09	Wed 7/22/09
24	**NMMS**	**NMMS 5 (EMA 1F2)**	**100%**	**Fri 6/20/08**	**Fri 12/19/08**
25	NMMS	Finalize functionality/design	100%	Fri 6/20/08	Mon 7/21/08
26	NMMS	Deliver NMMS 5 Changes (EMA 1F2) to EIP	100%	Wed 10/1/08	Wed 10/1/08
28	NMMS	Install & Test NMMS 5 (EMA 1F2)	100%	Thu 10/2/08	Fri 10/17/08
29	NMMS	Create & Submit MMCR	100%	Tue 10/14/08	Wed 10/15/08
30	NMMS	"FAT" NMMS-MIS Interface	100%	Mon 10/27/08	Fri 11/14/08
31	NMMS	FAT NMMS 5 (EMA 1F2)	100%	Mon 10/20/08	Fri 12/19/08
32	NMMS	Manage Defects	100%	Mon 10/20/08	Fri 12/19/08
33	NMMS	NMMS 5 (EMA 1F2) Installed & Tested	100%	Fri 12/19/08	Fri 12/19/08
34	NMMS	Deliver NMMS 5 to EDS, OS, MPIM, & iTEST	100%	Fri 12/19/08	Fri 12/19/08
39	**NMMS**	**NMMS 6 (EMA 1F3)**	**4%**	**Fri 1/9/09**	**Mon 3/16/09**
40	NMMS	Receive NMMS 6 (EMA 1F3)	100%	Fri 1/9/09	Wed 1/14/09
42	NMMS	Install & Test NMMS 6 (EMA 1F3)	0%	Thu 1/15/09	Tue 1/20/09
43	NMMS	Create & Submit MMCR	0%	Thu 1/15/09	Thu 1/15/09
44	NMMS	FAT NMMS 6 (EMA 1F3)	0%	Thu 1/15/09	Tue 3/10/09
45	NMMS	FAT NMMS Interface	0%	Wed 1/21/09	Mon 2/2/09
46	NMMS	Manage Defects	0%	Wed 1/21/09	Mon 3/16/09
47	NMMS	NMMS 6 (EMA 1F3) Installed & Tested	0%	Mon 3/16/09	Mon 3/16/09
48	NMMS	Deliver NMMS 6 to iTEST	0%	Mon 3/16/09	Mon 3/16/09
51	**NMMS**	**Test CIM Importers & Exporters**	**100%**	**Tue 9/2/08**	**Mon 11/3/08**
52	NMMS	Support Data Requireements	100%	Tue 9/2/08	Thu 10/16/08
55	NMMS	Receive EMS Importer FAT from EMS	100%	Mon 11/3/08	Mon 11/3/08
56	NMMS	EMS Testing Complete	100%	Mon 11/3/08	Mon 11/3/08
57	**NMMS**	**SEM Interfaces**	**50%**	**Mon 1/5/09**	**Fri 2/13/09**
58	NMMS	NMMS-MIS	50%	Mon 1/5/09	Fri 2/13/09
59	NMMS	SEM Interfaces Complete	0%	Fri 2/13/09	Fri 2/13/09
60	**NMMS**	**Freeze Schema**	**100%**	**Tue 6/10/08**	**Mon 10/6/08**
61	**NMMS**	**NMMS: Validate & Prepare Schema**	**100%**	**Tue 6/10/08**	**Mon 10/6/08**
62	NMMS	Provide Schema V1.16	100%	Tue 6/10/08	Thu 6/12/08
63	NMMS	Provide Schema V1.17	100%	Tue 6/17/08	Thu 6/19/08
64	NMMS	Provide Schema V1.18	100%	Thu 6/26/08	Mon 7/7/08
65	NMMS	Provide Schema V1.19	100%	Thu 7/31/08	Thu 8/14/08

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ID	Project Name	Task Name	% Complete	Start	Finish
66	NMMS	Additional Schema Contingency (V1.20, V1.21)	100%	Mon 8/11/08	Mon 10/6/08
67	NMMS	Model Schema Frozen	100%	Mon 10/6/08	Mon 10/6/08
68	**NMMS**	**Data Validation Analysis**	**100%**	**Mon 6/30/08**	**Fri 8/1/08**
69	NMMS	Gather requirements from upstream & downstream systems (EMS, MMS, Planning, CRR, OS, S&B, & RARF)	100%	Mon 6/30/08	Tue 7/22/08
70	NMMS	Analyze data & identify candidates for "existing data" & NOMCR/SAMR Validation	100%	Wed 7/23/08	Mon 7/28/08
71	NMMS	Identify manual & bulk load data validation candidates	100%	Tue 7/29/08	Fri 8/1/08
72	NMMS	Data Validation Analysis Complete	100%	Fri 8/1/08	Fri 8/1/08
73	**NMMS**	**Validation Rules Generation**	**100%**	**Mon 8/4/08**	**Thu 1/8/09**
74	NMMS	Design validation rule generation capability	100%	Mon 8/4/08	Thu 8/7/08
75	**NMMS**	**Construct & Implement Validation Set 1 (Manual Associations, Classes & Attributes)**	**100%**	**Fri 8/8/08**	**Tue 10/28/08**
76	NMMS	Construct & Run Validation Set 1 in Dev Environment	100%	Fri 8/8/08	Thu 8/21/08
77	NMMS	Categorize Errors & Identify Changes to Data Dictionary	100%	Fri 8/22/08	Thu 8/28/08
78	NMMS	Move Validation Set 1 to Environment with Common Model	100%	Fri 9/5/08	Fri 9/5/08
79	NMMS	Resolve Internal Errors	100%	Tue 9/9/08	Mon 9/15/08
80	NMMS	Create SPRs & Work with Source System to Resolve	100%	Tue 9/9/08	Tue 10/28/08
81	NMMS	NMMS Validation Set 1 Implemented & Errors "Resolved"	100%	Tue 10/28/08	Tue 10/28/08
82	**NMMS**	**Construct & Implement Validation Set 2 (CRR, Planning, & RARF Rules)**	**100%**	**Tue 9/9/08**	**Thu 12/11/08**
83	NMMS	Construct Validation Set 2	100%	Tue 9/9/08	Wed 9/24/08
84	NMMS	Run Validation Set 2 in Dev Environment	100%	Wed 9/24/08	Wed 10/1/08
85	NMMS	Categorize Errors & Identify Changes to Data Dictionary	100%	Wed 10/1/08	Wed 10/15/08
86	NMMS	Move Validation Set 2 to Environment with Common Model	100%	Mon 10/13/08	Mon 10/13/08
87	NMMS	Resolve Internal Errors	100%	Tue 10/14/08	Fri 10/17/08
88	NMMS	Create SPRs & Work with Source System to Resolve	100%	Tue 10/14/08	Thu 12/11/08
89	NMMS	NMMS Validation Set 2 Implemented & Errors "Resolved"	100%	Thu 12/11/08	Thu 12/11/08
90	**NMMS**	**Construct & Implement Validation Set 3 (EMS & MMS)**	**100%**	**Thu 9/25/08**	**Thu 1/8/09**
91	NMMS	Construct Validation Set 3	100%	Thu 9/25/08	Fri 10/10/08
92	NMMS	Run Validation Set 3 in Dev Environment	100%	Mon 10/13/08	Wed 10/15/08
93	NMMS	Categorize Errors & Identify Changes to Data Dictionary	100%	Tue 10/21/08	Fri 10/24/08
94	NMMS	Move Validation Set 3 to Environment with Common Model	100%	Fri 10/24/08	Fri 10/24/08
95	NMMS	Resolve Internal Errors	100%	Mon 10/27/08	Mon 10/27/08
96	NMMS	Create SPRs & Work with Source System to Resolve	100%	Tue 10/28/08	Thu 1/8/09
97	NMMS	Deliver Validated Model (V1.21 schema & data set) to Downstream Systems	100%	Thu 1/8/09	Thu 1/8/09
100	**NMMS**	**Synchronize Data for Downstream Applications**	**100%**	**Wed 10/15/08**	**Wed 12/10/08**
101	NMMS	Create Save Cases & request Zonal SEED	100%	Wed 10/15/08	Fri 10/17/08
103	NMMS	Receive Zonal Seed Received from AREVA for DD1.21 from EMS	100%	Fri 10/31/08	Fri 10/31/08

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ID	Project Name	Task Name	% Complete	Start	Finish
104	NMMS	Identify Best Source of Production Grade Data (Authoritative List or Other)	100%	Mon 11/3/08	Mon 11/17/08
105	NMMS	Update NMMS Access Databases with Authoritative Data	100%	Tue 11/18/08	Mon 11/24/08
106	NMMS	Update CIM XML Version 1.21 Data Set	100%	Tue 11/25/08	Tue 12/2/08
107	NMMS	Ensure Changes to MMS & EMS Test Data are Included in Official Data Set	100%	Wed 12/3/08	Fri 12/5/08
108	NMMS	Update CIM XML Version 1.21 Data Set	100%	Mon 12/8/08	Wed 12/10/08
109	NMMS	Deliver Synchronized Model (V1.21 schema & data set) to Downstream Systems	100%	Wed 12/10/08	Wed 12/10/08
111	**NMMS**	**RARF Data Validation with MPs**	**100%**	**Tue 9/16/08**	**Mon 12/15/08**
112	**NMMS**	**RARF Iteration 1 (I1)**	**100%**	**Tue 9/16/08**	**Wed 10/22/08**
113	**NMMS**	**PREPARE NTDR (I1)**	**100%**	**Tue 9/16/08**	**Tue 9/23/08**
114	NMMS	LOAD NEW RARF's TO RARF HUB (I1)	100%	Tue 9/16/08	Thu 9/18/08
115	NMMS	RUN AUDIT (I1)	100%	Fri 9/19/08	Mon 9/22/08
116	NMMS	REMOVE CORRECTED DATA FROM TEST SCRIPT (I1)	100%	Tue 9/23/08	Tue 9/23/08
117	NMMS	RUN TEST DATA SCRIPT (I1)	100%	Tue 9/23/08	Tue 9/23/08
118	**NMMS**	**MP CORRECTS DATA (I1)**	**100%**	**Mon 9/29/08**	**Wed 10/22/08**
119	NMMS	AUDIT REPORT SENT (I1)	100%	Mon 9/29/08	Tue 9/30/08
120	NMMS	MP TELECONFERENCES (I1)	100%	Wed 10/1/08	Wed 10/22/08
121	NMMS	MP WORKS ISSUES (I1)	100%	Wed 10/1/08	Wed 10/22/08
122	NMMS	85% Production Quality Achieved (I1) for RARF Data	100%	Wed 10/22/08	Wed 10/22/08
124	**NMMS**	**RARF Iteration 2 (I2)**	**100%**	**Thu 10/23/08**	**Tue 11/18/08**
125	**NMMS**	**PREPARE NTDR (I2)**	**100%**	**Thu 10/23/08**	**Thu 10/30/08**
126	NMMS	LOAD NEW RARF's TO RARF HUB (I2)	100%	Thu 10/23/08	Thu 10/23/08
127	NMMS	RUN AUDIT (I2)	100%	Fri 10/24/08	Tue 10/28/08
128	NMMS	REMOVE CORRECTED DATA FROM TEST SCRIPT (I2)	100%	Wed 10/29/08	Wed 10/29/08
129	NMMS	RUN TEST DATA SCRIPT (I2)	100%	Thu 10/30/08	Thu 10/30/08
130	**NMMS**	**MP CORRECTS DATA (I2)**	**100%**	**Fri 10/31/08**	**Tue 11/18/08**
131	NMMS	AUDIT REPORT SENT (I2)	100%	Fri 10/31/08	Fri 10/31/08
132	NMMS	MP TELECONFERENCES (I2)	100%	Mon 11/3/08	Tue 11/18/08
133	NMMS	MP WORKS ISSUES (I2)	100%	Mon 11/3/08	Tue 11/18/08
134	NMMS	90% Production Quality Achieved (I2) for RARF Data	100%	Tue 11/18/08	Tue 11/18/08
136	**NMMS**	**RARF Iteration 3 (I3)**	**100%**	**Wed 11/19/08**	**Mon 12/15/08**
137	**NMMS**	**PREPARE NTDR (I3)**	**100%**	**Wed 11/19/08**	**Tue 11/25/08**
138	NMMS	LOAD NEW RARF's TO RARF HUB (I3)	100%	Wed 11/19/08	Wed 11/19/08
139	NMMS	RUN AUDIT ON NTDR (I3)	100%	Thu 11/20/08	Fri 11/21/08
140	NMMS	REMOVE CORRECTED DATA FROM TEST SCRIPT (I3)	100%	Mon 11/24/08	Mon 11/24/08
141	NMMS	RUN TEST DATA SCRIPT (I3)	100%	Tue 11/25/08	Tue 11/25/08

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ID	Project Name	Task Name	% Complete	Start	Finish
142	**NMMS**	**MP CORRECTS DATA (I3)**	**100%**	**Mon 12/1/08**	**Mon 12/15/08**
143	NMMS	AUDIT REPORT SENT (I3)	100%	Mon 12/1/08	Mon 12/1/08
144	NMMS	MP TELECONFERENCES (I3)	100%	Tue 12/2/08	Fri 12/12/08
145	NMMS	MP WORKS ISSUES (I3)	100%	Tue 12/2/08	Mon 12/15/08
146	NMMS	98% Production Quality Achieved (I3) for RARF Data	100%	Mon 12/15/08	Mon 12/15/08
148	**NMMS**	**Validate V1.21 Data Set with Final RARF data**	**16%**	**Mon 1/5/09**	**Fri 3/6/09**
149	NMMS	Load Final RARF Data Set & Run Validation Rules	100%	Mon 1/5/09	Fri 1/9/09
150	NMMS	Resolve Data Issues	5%	Mon 1/12/09	Fri 3/6/09
151	NMMS	Deliver Validated Model with Final RARF Data (V1.21 schema & data set) to Downstream Systems	0%	Fri 3/6/09	Fri 3/6/09
155	**NMMS**	**Process New Data Seed For SEM & Data Consistency**	**0%**	**Mon 5/11/09**	**Mon 7/6/09**
157	NMMS	Create Save Cases & requirements SEM Zonal Seed	0%	Mon 5/11/09	Fri 5/15/09
158	NMMS	Receive Zonal Seed for SEM from EMS	0%	Mon 5/18/09	Mon 6/1/09
160	NMMS	Update NMMS Access Databases with Authoritative Data	0%	Tue 6/2/09	Wed 6/3/09
161	NMMS	Update CIM XML Version1.21 Data Set	0%	Thu 6/4/09	Mon 6/8/09
162	NMMS	Perform Manual Validations	0%	Tue 6/9/09	Wed 6/10/09
163	NMMS	Perform Bulk Load Validations	0%	Thu 6/11/09	Mon 6/15/09
164	NMMS	"Re-Load" Data Set & Run Validation Rules	0%	Tue 6/16/09	Wed 6/17/09
165	NMMS	Resolve Data Issues	0%	Thu 6/18/09	Wed 7/1/09
166	NMMS	Update V1.21 Data Set	0%	Thu 7/2/09	Mon 7/6/09
167	NMMS	V1.21 Data Set Validated & Ready for Consumption for Data Consistency Check	0%	Mon 7/6/09	Mon 7/6/09
168	**NMMS**	**Perform CIM Data Inventory**	**100%**	**Sun 6/1/08**	**Wed 7/2/08**
169	NMMS	Create inventory (format, range, type, etc.)	100%	Sun 6/1/08	Sun 6/1/08
170	NMMS	Identify source of data (format, range, type, etc.)	100%	Tue 6/3/08	Thu 6/12/08
171	NMMS	Identify consumer of data	100%	Fri 6/13/08	Fri 6/20/08
172	NMMS	Identify Classes, associations, & atributes	100%	Mon 6/23/08	Thu 6/26/08
173	NMMS	Identify data not in model & resolve	100%	Fri 6/27/08	Wed 7/2/08
174	NMMS	CIM Inventory Complete	100%	Wed 7/2/08	Wed 7/2/08
175	**NMMS**	**Design Canned Reports**	**100%**	**Wed 6/4/08**	**Thu 8/7/08**
176	NMMS	Define 10 canned reports	100%	Wed 6/4/08	Mon 7/21/08
177	NMMS	Review with Siemens	100%	Wed 7/23/08	Fri 7/25/08
178	NMMS	Revise & Submit to Siemens	100%	Tue 7/29/08	Thu 8/7/08
179	NMMS	Canned Reports Complete	100%	Thu 8/7/08	Thu 8/7/08
180	**NMMS**	**CIMTool Training for ERCOT & MP's**	**100%**	**Thu 6/19/08**	**Wed 7/9/08**
181	NMMS	Prepare Training Materials	100%	Thu 6/19/08	Thu 6/26/08
182	NMMS	Review Materials	100%	Fri 6/27/08	Wed 7/2/08

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ID	Project Name	Task Name	% Complete	Start	Finish
183	NMMS	Identify Trainer	100%	Thu 7/3/08	Thu 7/3/08
184	NMMS	Schedule Classes	100%	Mon 7/7/08	Mon 7/7/08
185	NMMS	Conduct internal training	100%	Tue 7/8/08	Tue 7/8/08
186	NMMS	Conduct External Training	100%	Wed 7/9/08	Wed 7/9/08
187	NMMS	Training Material Preparation Completed	100%	Wed 7/9/08	Wed 7/9/08
188	NMMS	Create Templates	0%	Thu 1/15/09	Mon 2/16/09
189	**NMMS**	**Prepare Modeling Guidelines Documentation**	**0%**	**Mon 3/9/09**	**Fri 6/5/09**
190	NMMS	Compile Draft of Validation Rules	0%	Mon 3/9/09	Wed 3/18/09
192	NMMS	Compile Draft of Modeling Guidelines	0%	Thu 3/19/09	Wed 5/13/09
193	NMMS	Review Draft Internally & Revise	0%	Thu 5/14/09	Tue 5/19/09
194	NMMS	Issue Modeling Guidelines Draft to Participants	0%	Tue 5/19/09	Tue 5/19/09
196	NMMS	Dispose Comments & Revise Document	0%	Wed 5/20/09	Thu 6/4/09
197	NMMS	Review Final Document with Participants	0%	Fri 6/5/09	Fri 6/5/09
198	NMMS	Modeling Guidelines Complete	0%	Fri 6/5/09	Fri 6/5/09
200	**NMMS**	**Approach Document for Single Entry Model**	**100%**	**Wed 6/4/08**	**Thu 7/31/08**
201	NMMS	Define tasks TSPs & ERCOT must complete for transition from zonal	100%	Wed 6/4/08	Tue 7/15/08
202	NMMS	Deliver Revised Approach Document to MPs	100%	Tue 7/15/08	Tue 7/15/08
204	NMMS	Collect Additional Comments	100%	Wed 7/16/08	Fri 7/25/08
205	NMMS	Revise Approach Document	100%	Mon 7/28/08	Thu 7/31/08
206	NMMS	Approach Document Complete	100%	Tue 7/15/08	Tue 7/15/08
207	**NMMS**	**Perform Data Consistency Check (Stage 1 Validation) for NMMS Go Live**	**19%**	**Mon 6/2/08**	**Wed 8/5/09**
208	NMMS	Plan/review approach	100%	Mon 6/2/08	Fri 6/6/08
210	NMMS	Establish Benchmark in Zonal EMS	0%	Tue 7/7/09	Thu 7/9/09
211	NMMS	Execute Zonal EMS Applications (STNET, RTNET, Others)	0%	Fri 7/10/09	Tue 7/14/09
212	NMMS	Import Zonal Benchmark Model through CIM to Nodal EMS	0%	Wed 7/15/09	Fri 7/17/09
213	NMMS	Execute Nodal EMS Applications	0%	Mon 7/20/09	Wed 7/22/09
214	NMMS	Perform database comparison	0%	Thu 7/23/09	Mon 7/27/09
215	NMMS	Perform application results comparison	0%	Tue 7/28/09	Thu 7/30/09
216	NMMS	Prepare Report	0%	Fri 7/31/09	Tue 8/4/09
217	NMMS	Obtain Approvals (Director System Operations & Director Market Operations)	0%	Wed 8/5/09	Wed 8/5/09
218	NMMS	Data Consistency Check for NMMS Go Live Completed	0%	Tue 8/4/09	Tue 8/4/09
219	**NMMS**	**Network Model Group Process Development**	**100%**	**Wed 6/11/08**	**Mon 8/11/08**
220	NMMS	Develop "Generate, Post, & Distribute Models & Files" Procedure	100%	Wed 6/11/08	Mon 8/11/08
221	NMMS	Develop "Conduct NOMCR Validation" Procedure	100%	Wed 6/11/08	Mon 8/11/08
222	NMMS	Develop "Respond to Model Changes & Interim Updates" Procedure	100%	Wed 6/11/08	Mon 8/11/08

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ID	Project Name	Task Name	% Complete	Start	Finish
223	NMMS	Develop "Maintain Network Model" Procedure	100%	Wed 6/11/08	Mon 8/11/08
224	NMMS	Network Model Group Business Processes Developed	100%	Mon 8/11/08	Mon 8/11/08
225	NMMS	Deliver Deployment of NMMS to Production for SEM to EDS	0%	Tue 5/19/09	Tue 5/19/09
227	**NMMS**	**MPIM Implementation**	**0%**	**Tue 7/7/09**	**Fri 7/31/09**
228	NMMS	Create Use Case	0%	Tue 7/7/09	Thu 7/9/09
229	NMMS	Application configured for "production"	0%	Fri 7/10/09	Tue 7/21/09
230	NMMS	Site Monitor configured to allow access	0%	Wed 7/22/09	Thu 7/23/09
231	NMMS	Application pointed to production LDAP or Stage Table	0%	Fri 7/24/09	Mon 7/27/09
232	NMMS	List of users & roles bulk loaded into MPM	0%	Tue 7/28/09	Wed 7/29/09
233	NMMS	Test Environment with MPIM, Citrix, & NMMS	0%	Thu 7/30/09	Fri 7/31/09
234	NMMS	MPIM Integration Complete	0%	Fri 7/31/09	Fri 7/31/09
235	**NMMS**	**Meet Business Criteria Single Entry Model**	**0%**	**Tue 8/4/09**	**Thu 9/3/09**
236	NMMS	Deliver Entrance Criteria Met to EDS	0%	Tue 8/4/09	Tue 8/4/09
238	NMMS	Business Criteria Single Entry Model Met	0%	Tue 8/4/09	Tue 8/4/09
239	NMMS	Business Transition I	0%	Wed 8/5/09	Thu 9/3/09
240	**NMMS**	**SIG Implementations**	**100%**	**Mon 6/2/08**	**Fri 12/12/08**
241	**NMMS**	**SIG 002 Private Use Networks**	**100%**	**Mon 6/2/08**	**Wed 6/18/08**
242	NMMS	SIG 002: Confirm additional attributes & linkage is in the Network Model	100%	Wed 6/18/08	Wed 6/18/08
243	NMMS	SIG 002: Confirm loads are modeled as Non ERCOT non-conforming loads	100%	Wed 6/18/08	Wed 6/18/08
244	NMMS	SIG 002: Confirm Resource Nodes for PUN Resources are in model	100%	Mon 6/2/08	Mon 6/2/08
245	NMMS	SIG 002: Private Use Network Implementation Complete	100%	Wed 6/18/08	Wed 6/18/08
246	**NMMS**	**SIG 0003 Combined Cycle Plants**	**100%**	**Wed 6/4/08**	**Wed 6/18/08**
247	NMMS	SIG 0003: Model Physical Resources & their parameters	100%	Wed 6/4/08	Wed 6/4/08
248	NMMS	SIG 0003: Model Logical CCP Resources & their parameters	100%	Wed 6/4/08	Wed 6/4/08
249	NMMS	SIG 0003: Model mapping between Logical & Physical Resources	100%	Wed 6/4/08	Wed 6/4/08
250	NMMS	SIG 0003: Model CCP Transition Matrix	100%	Wed 6/4/08	Wed 6/4/08
251	NMMS	SIG 0003: Define Physical CCU Resource Nodes & map to Electrical Buses	100%	Wed 6/4/08	Wed 6/4/08
252	NMMS	SIG 0003: Define Logical CCU Resource Nodes & do not map to Electrical Buses	100%	Wed 6/4/08	Wed 6/4/08
253	NMMS	SIG 0003: Define Settlement Points at both Logical CCP Resource Nodes & Physical CCU Resource Nodes	100%	Wed 6/18/08	Wed 6/18/08
254	NMMS	SIG 0003: Define mapping of logical CcP Resources to EPS meters as net Metering Scheme	100%	Wed 6/18/08	Wed 6/18/08
255	NMMS	SIG 0003 Combined Cycle Plants Implementation Complete	100%	Wed 6/18/08	Wed 6/18/08
256	**NMMS**	**SIG 0005 Load Resource Topology Modeling**	**100%**	**Thu 6/5/08**	**Fri 12/5/08**
257	NMMS	Model Load Resources	100%	Thu 6/5/08	Thu 6/5/08
258	NMMS	Publish Schema	100%	Fri 6/6/08	Fri 6/6/08
259	NMMS	Input Load Resource data	100%	Thu 6/5/08	Fri 12/5/08

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ID	Project Name	Task Name	% Complete	Start	Finish
260	NMMS	SIG 0005 Load Resource Topology Modeling Complete	100%	Fri 12/5/08	Fri 12/5/08
261	**NMMS**	**SIG 0006 Flowgate Modeling**	**100%**	**Thu 6/5/08**	**Mon 12/8/08**
262	NMMS	Modeling complete	100%	Thu 6/5/08	Thu 6/5/08
263	NMMS	Input data	100%	Thu 7/17/08	Mon 12/8/08
264	NMMS	SIG 006 Flowgate Modeling Complete	100%	Mon 12/8/08	Mon 12/8/08
265	**NMMS**	**SIG 007 Block Load Transfer**	**100%**	**Thu 6/5/08**	**Thu 6/5/08**
266	NMMS	Add BLT class (and normal parameters for a resource) to network model schema	100%	Thu 6/5/08	Thu 6/5/08
267	NMMS	SIG 0007 Block Load Transfer Model Complete	100%	Thu 6/5/08	Thu 6/5/08
268	**NMMS**	**SIG 0008 Non Modeled Generation**	**100%**	**Thu 6/5/08**	**Fri 12/12/08**
269	NMMS	Modeling complete	100%	Thu 6/5/08	Thu 6/5/08
270	NMMS	Input Data	100%	Wed 7/23/08	Fri 12/12/08
271	NMMS	SIG 0008 Non-Modeled Generation Complete	100%	Fri 12/12/08	Fri 12/12/08
272	**NMMS**	**SIG 0009 Resource Node Location**	**100%**	**Thu 6/5/08**	**Thu 6/5/08**
273	NMMS	Locate & name all resources	100%	Thu 6/5/08	Thu 6/5/08
274	NMMS	SIG 0009 Resource Load Location Completed	100%	Thu 6/5/08	Thu 6/5/08
275	**NMMS**	**SIG 0011 Net Generation**	**100%**	**Wed 6/4/08**	**Fri 12/5/08**
276	NMMS	SIG 0011 Confirm additional attributes & linkage is in the Network Model	100%	Wed 6/4/08	Wed 6/4/08
277	NMMS	SIG 0011 Confirm loads are modeled as non-ERCOT non-conforming loads	100%	Thu 6/5/08	Thu 6/5/08
278	NMMS	Confirm Resource Nodes for PUN Resources are in the model	100%	Fri 6/6/08	Fri 12/5/08
279	NMMS	SIG 0011 Net Generation Modeling Complete	100%	Fri 12/5/08	Fri 12/5/08
280	NMMS	SIG Implementations Complete	100%	Fri 12/12/08	Fri 12/12/08
281	**NMMS**	**Develop NMMS Modeling**	**77%**	**Mon 8/25/08**	**Fri 2/6/09**
282	NMMS	Develop/Update Network Model Process	80%	Mon 8/25/08	Fri 1/30/09
283	NMMS	Develop the ICCP Management Process	0%	Mon 2/2/09	Fri 2/6/09
284	NMMS	NMMS Modeling Processes Complete	0%	Fri 2/6/09	Fri 2/6/09
285	NMMS	Develop NMMS Level 2 Procedures	13%	Mon 8/25/08	Fri 1/30/09
286	**NMMS**	**Develop NMMS Network Procedures**	**100%**	**Mon 6/2/08**	**Wed 7/16/08**
287	NMMS	Generate, post & distribute files, NOMCRs & attachments	100%	Mon 6/2/08	Thu 6/5/08
288	NMMS	Conduct NOMCR validation	100%	Mon 6/2/08	Thu 6/5/08
289	NMMS	Respond to Model changes & interim updates	100%	Mon 6/2/08	Thu 6/5/08
290	NMMS	Maintain the Network Model	100%	Mon 6/2/08	Thu 6/5/08
291	NMMS	Review & Sign-off Procedures	100%	Mon 7/14/08	Wed 7/16/08
292	NMMS	Network Modeling Procedures Complete (dept 422)	100%	Wed 7/16/08	Wed 7/16/08
293	**NMMS**	**Prepare Training Materials**	**8%**	**Tue 9/16/08**	**Wed 3/25/09**
294	NMMS	Review Siemens User Guides	0%	Tue 3/17/09	Wed 3/18/09

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ID	Project Name	Task Name	% Complete	Start	Finish
295	NMMS	Review Application Support Training	0%	Tue 3/17/09	Wed 3/18/09
296	NMMS	Prepare User/Product Training (2-day Session)	100%	Wed 9/17/08	Thu 9/18/08
297	NMMS	Prepare User/Product Lite (6-hour session)	100%	Tue 9/16/08	Tue 9/16/08
298	NMMS	Develop EMMS Productiion Procedure	0%	Tue 3/17/09	Wed 3/25/09
299	**NMMS**	**Deliver NMMS Training**	**0%**	**Tue 3/17/09**	**Tue 3/24/09**
300	NMMS	Schedule Training Sessions	0%	Tue 3/17/09	Tue 3/17/09
301	NMMS	Conduct Applications Support Training	0%	Thu 3/19/09	Tue 3/24/09
302	NMMS	Conduct User Product Training Session 1 (2-day session)	0%	Wed 3/18/09	Thu 3/19/09
303	NMMS	Conduct User Product Training Session 2 (2-day session)	0%	Fri 3/20/09	Mon 3/23/09
304	NMMS	Conduct User Product Training - Lite (6-hour course)	0%	Wed 3/18/09	Wed 3/18/09
305	NMMS	Conduct User Product Training - Lite (6-hour course)	0%	Thu 3/19/09	Thu 3/19/09
306	NMMS	NMMS Training Complete	0%	Mon 3/23/09	Mon 3/23/09
307	**NMMS**	**NODAL Go Live**	**28%**	**Tue 6/10/08**	**Tue 8/11/09**
308	**NMMS**	**NMMS 7**	**18%**	**Fri 6/20/08**	**Fri 5/1/09**
309	NMMS	Finalize functionality/design	100%	Fri 6/20/08	Tue 7/8/08
310	NMMS	Receive NMMS 7	0%	Tue 3/17/09	Mon 3/23/09
312	NMMS	Install & Test NMMS 7 (Dev & Test), including interfaces	0%	Tue 3/24/09	Fri 3/27/09
313	NMMS	Create & Submit MMCR	0%	Mon 3/30/09	Wed 4/1/09
314	NMMS	Perform FAT Test NMMS 7	0%	Thu 4/2/09	Fri 5/1/09
315	NMMS	Manage Defects	0%	Thu 4/2/09	Fri 5/1/09
316	NMMS	NMMS 7 Installed & Tested	0%	Fri 5/1/09	Fri 5/1/09
317	NMMS	Deliver NMMS 7 INT	0%	Fri 5/1/09	Fri 5/1/09
319	**NMMS**	**Nodal Go Live Interfaces**	**100%**	**Tue 6/10/08**	**Thu 9/11/08**
320	NMMS	Nodal Go Live Interfaces: NMMS-OS (via EIP)	100%	Wed 6/18/08	Wed 6/18/08
321	NMMS	Nodal Go Live Interfaces: OS-NMMS (to CRR) (via EIP)	100%	Tue 7/8/08	Tue 7/8/08
322	NMMS	Nodal Go Live Interfaces: REG-NMMS	100%	Thu 9/4/08	Thu 9/4/08
323	NMMS	Deliver Nodal Go Live Interfaces: NMMS-CRR to CRR	100%	Thu 6/19/08	Thu 6/19/08
325	NMMS	Nodal Go Live Interfaces: NMMS-S&B/CSI	100%	Tue 6/10/08	Tue 6/10/08
326	NMMS	Nodal Go Live Interfaces: NMMS-MMS	100%	Thu 9/11/08	Thu 9/11/08
327	NMMS	Deliver Nodal Go Live Interfaces: NMMS-EMS to EMS	100%	Mon 7/28/08	Mon 7/28/08
330	NMMS	Deliver Nodal Go Live Interfaces: NMMS - EMS OE (via EIP) to EMS	100%	Mon 7/28/08	Mon 7/28/08
332	NMMS	Nodal Interfaces complete	100%	Wed 6/18/08	Wed 6/18/08
333	**NMMS**	**Planning Model Audit**	**64%**	**Tue 10/14/08**	**Tue 3/24/09**
334	NMMS	Identify Missing Planning Data in IMM	100%	Tue 10/14/08	Fri 10/17/08
335	NMMS	Confirm with Network Modeling Group that IMM has Field	100%	Mon 10/20/08	Tue 10/21/08

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ID	Project Name	Task Name	% Complete	Start	Finish
336	NMMS	Submit Change Request for Missing Planning Data Fields	100%	Wed 10/22/08	Thu 10/30/08
337	NMMS	Create Missing Planning Data	100%	Fri 10/31/08	Wed 11/12/08
338	NMMS	Develop process to add any missing planning data	100%	Thu 11/13/08	Mon 11/17/08
339	NMMS	Identify missing data	100%	Tue 11/18/08	Wed 12/17/08
340	NMMS	Add missing data using established process	70%	Thu 12/18/08	Fri 2/13/09
341	NMMS	Run Topology Processor with dump of updated data	0%	Mon 2/16/09	Wed 2/18/09
342	NMMS	Verify new data	0%	Thu 2/19/09	Tue 3/3/09
343	NMMS	Develop process to use ownership data from TP to MOD	0%	Wed 3/4/09	Fri 3/6/09
344	NMMS	Verify data ownership is being passed & perform comparison	0%	Mon 3/9/09	Wed 3/11/09
345	NMMS	Create template for planning data updates	0%	Thu 3/12/09	Mon 3/16/09
346	NMMS	Test template	0%	Tue 3/17/09	Thu 3/19/09
347	NMMS	Resolve Issue & revise template	0%	Fri 3/20/09	Tue 3/24/09
348	NMMS	Planning Audit Complete	0%	Tue 3/24/09	Tue 3/24/09
349	**NMMS**	**Develop NMMS Planning Procedures**	**0%**	**Tue 3/24/09**	**Fri 5/8/09**
350	NMMS	Receive State 2 Validation Support from MMS	0%	Tue 3/24/09	Tue 3/24/09
351	NMMS	Validate Topology Processed Model From IMM	0%	Wed 3/25/09	Tue 3/31/09
352	NMMS	Validate & Approve PMCR from TSP & ERCOT	0%	Wed 4/1/09	Wed 4/8/09
353	NMMS	Business Transition II	0%	Thu 4/9/09	Fri 5/8/09
354	NMMS	Planning Procedures Complete (Dept 471)	0%	Fri 5/8/09	Fri 5/8/09
355	**NMMS**	**Integration Support**	**0%**	**Mon 5/11/09**	**Tue 5/12/09**
356	NMMS	iTest	0%	Mon 5/11/09	Mon 5/11/09
357	NMMS	EDS	0%	Tue 5/12/09	Tue 5/12/09
358	**NMMS**	**Quality Assurance Documents**	**0%**	**Mon 5/4/09**	**Tue 7/14/09**
359	NMMS	Use Cases	0%	Mon 5/4/09	Fri 5/15/09
360	NMMS	Data Migration	0%	Mon 5/18/09	Mon 6/1/09
361	NMMS	Standard Interfaces Documentation	0%	Tue 6/2/09	Mon 6/22/09
362	NMMS	Unit test & Log	0%	Tue 6/23/09	Mon 6/29/09
363	NMMS	Test Plan	0%	Tue 6/30/09	Tue 7/7/09
364	NMMS	System Monitoring Document	0%	Wed 7/8/09	Tue 7/14/09
365	NMMS	Quality Assurance Documents Complete	0%	Tue 7/14/09	Tue 7/14/09
366	**NMMS**	**Handoff/End of Project**	**0%**	**Thu 4/9/09**	**Tue 8/11/09**
367	NMMS	Resource Transfer or Roll-off (employees & contractors)	0%	Wed 7/15/09	Tue 8/4/09
368	NMMS	Disposition of Hardware	0%	Wed 8/5/09	Tue 8/11/09
369	NMMS	```	0%	Thu 4/9/09	Thu 4/9/09
370	NMMS	Close-out of budget	0%	Thu 4/9/09	Thu 4/9/09

Wed 1/14/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
371	NMMS	NMMS Project End	0%	Thu 9/3/09	Thu 9/3/09
5	**Nodal IPS**	**MPIM - Market Participant ID Management**	**56%**	**Mon 6/2/08**	**Fri 6/19/09**
1	**MPIM**	**MPIM Project Plan**	**56%**	**Mon 6/2/08**	**Fri 6/19/09**
2	MPIM	MPIP Replan Start	100%	Mon 6/2/08	Mon 6/2/08
3	**MPIM**	**MPIM**	**100%**	**Mon 6/2/08**	**Mon 6/16/08**
4	MPIM	Requirements Document Complete	100%	Mon 6/2/08	Mon 6/2/08
5	MPIM	Use Cases Complete	100%	Mon 6/2/08	Mon 6/2/08
6	MPIM	Conceptual Design Document Complete	100%	Mon 6/2/08	Mon 6/2/08
7	MPIM	Design Document Complete	100%	Mon 6/2/08	Mon 6/2/08
8	MPIM	Development Complete	100%	Mon 6/2/08	Mon 6/2/08
9	MPIM	Fix Defects	100%	Tue 6/3/08	Mon 6/9/08
10	MPIM	Production Support Tickets	100%	Tue 6/3/08	Mon 6/9/08
11	MPIM	Security Testing	100%	Tue 6/3/08	Wed 6/4/08
12	MPIM	Performance Testing	100%	Tue 6/3/08	Mon 6/9/08
13	MPIM	FAT Testing for MPIM	100%	Tue 6/3/08	Mon 6/16/08
14	MPIM	Final Deployment Plan has been determined	100%	Mon 6/2/08	Mon 6/2/08
15	**MPIM**	**CRR Integration**	**100%**	**Tue 6/3/08**	**Fri 6/27/08**
16	**MPIM**	**CRR Integration Planning**	**100%**	**Tue 6/3/08**	**Wed 6/11/08**
17	**MPIM**	**Verify Integration Points**	**100%**	**Tue 6/3/08**	**Wed 6/4/08**
18	MPIM	Meeting with application SME	100%	Tue 6/3/08	Wed 6/4/08
19	MPIM	CRR LDAP Branch	100%	Tue 6/3/08	Wed 6/4/08
20	MPIM	CRR Triggers	100%	Tue 6/3/08	Wed 6/4/08
21	**MPIM**	**Verify Roles**	**100%**	**Tue 6/3/08**	**Wed 6/4/08**
22	MPIM	CRR Roles	100%	Tue 6/3/08	Wed 6/4/08
23	MPIM	CRR MIS Role	100%	Tue 6/3/08	Wed 6/4/08
24	MPIM	Verify Environments for FAT & iTest	100%	Thu 6/5/08	Wed 6/11/08
25	**MPIM**	**Integrated FAT Testing (ERCOT)**	**100%**	**Mon 6/9/08**	**Fri 6/27/08**
26	MPIM	Independent FAT Testing already Complete	100%	Mon 6/9/08	Mon 6/9/08
27	MPIM	Code drop & Smoke Test	100%	Tue 6/10/08	Thu 6/12/08
28	**MPIM**	**Functional Testing**	**100%**	**Fri 6/13/08**	**Fri 6/27/08**
29	MPIM	FAT Testing for INT	100%	Fri 6/13/08	Thu 6/19/08
30	MPIM	Defect Resolution	100%	Fri 6/20/08	Mon 6/23/08
31	MPIM	Defect Build Deployment	100%	Tue 6/24/08	Wed 6/25/08
32	MPIM	Defect Retest	100%	Thu 6/26/08	Fri 6/27/08
33	MPIM	CRR FAT Testing Complete	100%	Fri 6/27/08	Fri 6/27/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
34	**MPIM**	**NMMS_IMM Integration**	**33%**	**Tue 6/3/08**	**Mon 1/26/09**
35	**MPIM**	**NMMS_IMM Integration Planning**	**80%**	**Tue 6/3/08**	**Tue 1/6/09**
37	MPIM	Receive NMMS_IMM Dependencies Identified for Go Live from NMMS	0%	Fri 12/19/08	Fri 12/19/08
38	MPIM	NMMS_IMM Dependencies Identified for Go Live	0%	Mon 1/5/09	Tue 1/6/09
39	MPIM	Deployment Plan into Production has been determined	0%	Tue 1/6/09	Tue 1/6/09
40	**MPIM**	**Verify Integration Points**	**100%**	**Tue 6/3/08**	**Wed 6/4/08**
41	MPIM	Meeting with application SME	100%	Tue 6/3/08	Wed 6/4/08
42	MPIM	NMMS_IMM Active Directory	100%	Tue 6/3/08	Wed 6/4/08
43	**MPIM**	**Verify Roles**	**100%**	**Tue 6/3/08**	**Wed 6/4/08**
44	MPIM	NMMS_IMM Roles	100%	Tue 6/3/08	Wed 6/4/08
45	MPIM	NMMS_IMM MIS Role	100%	Tue 6/3/08	Wed 6/4/08
46	**MPIM**	**Integrated FAT Testing (ERCOT)**	**0%**	**Tue 1/6/09**	**Mon 1/26/09**
47	MPIM	Independent FAT Testing already Complete	0%	Tue 1/6/09	Tue 1/6/09
48	MPIM	Code drop & Smoke Test	0%	Wed 1/7/09	Fri 1/9/09
49	**MPIM**	**Functional Testing**	**0%**	**Mon 1/12/09**	**Mon 1/26/09**
50	MPIM	FAT Testing for NMMS IMM Integration	0%	Mon 1/12/09	Fri 1/16/09
51	MPIM	Defect Resolution	0%	Mon 1/19/09	Tue 1/20/09
52	MPIM	Defect Build Deployment	0%	Wed 1/21/09	Thu 1/22/09
53	MPIM	Defect Retest	0%	Fri 1/23/09	Mon 1/26/09
54	MPIM	NMMS_IMM Integration FAT Testing Complete	0%	Mon 1/26/09	Mon 1/26/09
55	**MPIM**	**MIS Integration**	**100%**	**Mon 6/2/08**	**Mon 9/22/08**
56	**MPIM**	**MIS Integration Planning**	**100%**	**Mon 6/2/08**	**Wed 6/4/08**
57	MPIM	Deliver Identified Dependencies for Go Live to MIS	100%	Tue 6/3/08	Tue 6/3/08
59	MPIM	Deployment Plan into Production has been determined	100%	Mon 6/2/08	Mon 6/2/08
60	**MPIM**	**Verify Integration Points**	**100%**	**Tue 6/3/08**	**Wed 6/4/08**
61	MPIM	Meeting with application SME	100%	Tue 6/3/08	Wed 6/4/08
62	MPIM	MIS LDAP Branch	100%	Tue 6/3/08	Wed 6/4/08
63	**MPIM**	**Verify Roles**	**100%**	**Tue 6/3/08**	**Wed 6/4/08**
64	MPIM	MIS Roles	100%	Tue 6/3/08	Wed 6/4/08
65	**MPIM**	**Integrated FAT Testing (ERCOT)**	**100%**	**Mon 6/9/08**	**Mon 9/22/08**
66	MPIM	Independent FAT Testing already Complete	100%	Mon 6/9/08	Mon 6/9/08
68	MPIM	Receive PPM Deployment Package from MIS	100%	Mon 9/22/08	Mon 9/22/08
69	MPIM	Code drop & Smoke Test	100%	Fri 8/22/08	Tue 8/26/08
70	**MPIM**	**Functional Testing**	**100%**	**Wed 8/27/08**	**Thu 9/11/08**
71	MPIM	FAT Testing for MIS	100%	Wed 8/27/08	Wed 9/3/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
72	MPIM	Defect Resolution	100%	Thu 9/4/08	Fri 9/5/08
73	MPIM	Defect Build Deployment	100%	Mon 9/8/08	Tue 9/9/08
74	MPIM	Defect Retest	100%	Wed 9/10/08	Thu 9/11/08
75	MPIM	MIS FAT Testing Complete	100%	Thu 9/11/08	Thu 9/11/08
76	**MPIM**	**MMS Integration**	**100%**	**Thu 9/18/08**	**Fri 11/14/08**
77	**MPIM**	**MMS Integration Planning**	**100%**	**Thu 9/18/08**	**Fri 10/24/08**
79	MPIM	Receive Configured Application for "Production" from MMS	100%	Wed 10/22/08	Wed 10/22/08
80	MPIM	MMS Dependencies Identified for Go Live	100%	Thu 10/23/08	Fri 10/24/08
81	MPIM	Deployment Plan into Production has been determined	100%	Fri 10/24/08	Fri 10/24/08
82	**MPIM**	**Verify Integration Points**	**100%**	**Thu 9/18/08**	**Fri 9/19/08**
83	MPIM	Meeting with application SME	100%	Thu 9/18/08	Fri 9/19/08
84	MPIM	MMS LDAP Branch	100%	Thu 9/18/08	Fri 9/19/08
85	MPIM	MMS Staging Table Triggers	100%	Thu 9/18/08	Fri 9/19/08
86	**MPIM**	**Verify Roles**	**100%**	**Thu 9/18/08**	**Fri 9/19/08**
87	MPIM	MMS Roles	100%	Thu 9/18/08	Fri 9/19/08
88	**MPIM**	**Integrated FAT Testing (ERCOT)**	**100%**	**Fri 9/19/08**	**Fri 11/14/08**
89	MPIM	Independent FAT Testing Complete	100%	Fri 9/19/08	Fri 9/19/08
90	MPIM	Code drop & Smoke Test	100%	Mon 9/22/08	Fri 11/7/08
91	**MPIM**	**Functional Testing**	**100%**	**Mon 11/10/08**	**Fri 11/14/08**
92	MPIM	FAT Testing for MMS	100%	Mon 11/10/08	Thu 11/13/08
93	MPIM	Defect Resolution	100%	Fri 11/14/08	Fri 11/14/08
94	MPIM	Defect Build Deployment	100%	Fri 11/14/08	Fri 11/14/08
95	MPIM	Defect Retest	100%	Fri 11/14/08	Fri 11/14/08
96	MPIM	MMS FAT Testing Complete	100%	Fri 11/14/08	Fri 11/14/08
97	**MPIM**	**Training**	**56%**	**Tue 6/3/08**	**Fri 2/27/09**
98	**MPIM**	**Documentation**	**36%**	**Tue 6/3/08**	**Fri 2/27/09**
99	**MPIM**	**User Guide**	**100%**	**Tue 6/3/08**	**Fri 6/20/08**
100	MPIM	Edit Identified	100%	Tue 6/3/08	Wed 6/4/08
101	MPIM	Edits made	100%	Thu 6/5/08	Thu 6/12/08
102	MPIM	Project Approves	100%	Fri 6/13/08	Tue 6/17/08
103	MPIM	Legal Approves	100%	Wed 6/18/08	Fri 6/20/08
104	MPIM	Training Guide Complete	100%	Fri 6/20/08	Fri 6/20/08
105	**MPIM**	**Troubleshooting Guide**	**100%**	**Tue 6/3/08**	**Tue 6/17/08**
106	MPIM	Edits Identified	100%	Tue 6/3/08	Wed 6/4/08
107	MPIM	Edits made	100%	Thu 6/5/08	Thu 6/12/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
108	MPIM	Project Approves	100%	Fri 6/13/08	Tue 6/17/08
109	MPIM	Troubleshooting Guide Complete	100%	Tue 6/17/08	Tue 6/17/08
110	**MPIM**	**Role Information Spreadsheet**	**14%**	**Tue 6/3/08**	**Fri 2/27/09**
111	MPIM	Determine which roles will be displayed to the user	100%	Tue 6/3/08	Wed 6/4/08
112	MPIM	What is the process to update the document	12%	Fri 10/31/08	Fri 2/27/09
113	**MPIM**	**Training**	**100%**	**Wed 6/18/08**	**Tue 7/15/08**
114	MPIM	Client + Retail + WholeSale Services	100%	Mon 6/23/08	Tue 7/15/08
115	MPIM	Helpdesk	100%	Wed 6/18/08	Thu 7/10/08
116	MPIM	MP USA	100%	Mon 6/23/08	Tue 7/15/08
117	**MPIM**	**Deployment**	**0%**	**Thu 6/18/09**	**Fri 6/19/09**
118	MPIM	Deploy Nodal Rolls to Production	0%	Thu 6/18/09	Fri 6/19/09
119	MPIM	Deliver Nodal Rolls To EDS	0%	Fri 6/19/09	Fri 6/19/09
121	**MPIM**	**Transition to home team**	**100%**	**Tue 6/3/08**	**Mon 6/9/08**
122	MPIM	Code Review	100%	Tue 6/3/08	Mon 6/9/08
123	MPIM	Handover Documentation	100%	Tue 6/3/08	Wed 6/4/08
124	**MPIM**	**Integration Testing Support**	**22%**	**Fri 10/31/08**	**Wed 6/17/09**
126	MPIM	Support iTest defects	22%	Fri 10/31/08	Wed 6/17/09
127	MPIM	MPIM Project End	0%	Fri 2/27/09	Fri 2/27/09
6	**Nodal IPS**	**OS - Outage Scheduling**	**46%**	**Mon 6/2/08**	**Tue 5/19/09**
1	**OS**	**Nodal Outage Scheduler & User Interface**	**46%**	**Mon 6/2/08**	**Tue 5/19/09**
2	**OS**	**Dependencies**	**99%**	**Mon 6/2/08**	**Mon 2/2/09**
3	OS	OS Project Start	100%	Mon 6/2/08	Mon 6/2/08
4	OS	EIP Specification v1.14 available	100%	Mon 6/2/08	Mon 6/2/08
5	OS	EIP Specification v1.15 available	100%	Fri 6/27/08	Fri 6/27/08
6	OS	Receive EIP Specification v1.17 Available from EIP	100%	Wed 10/15/08	Wed 10/15/08
7	OS	Receive EIP Specification from EIP (if Needed)	0%	Mon 2/2/09	Mon 2/2/09
8	OS	OS Version 2.0.13.0 available	100%	Thu 6/12/08	Thu 6/12/08
9	OS	Limited Maintenance Agreement Approved	100%	Fri 6/27/08	Fri 8/29/08
10	**OS**	**Interfaces**	**100%**	**Mon 6/2/08**	**Fri 12/19/08**
11	**OS**	**NMMS => OS (via EIP)**	**100%**	**Fri 12/19/08**	**Fri 12/19/08**
13	OS	Receive NMMS 5	100%	Fri 12/19/08	Fri 12/19/08
14	OS	NMMS Equipment List Received	100%	Fri 12/19/08	Fri 12/19/08
15	OS	NMMS Equipment Operatorship Received	100%	Fri 12/19/08	Fri 12/19/08
16	OS	NMMS Equipment Service Received	100%	Fri 12/19/08	Fri 12/19/08
17	OS	NMMS Related Equipment Received	100%	Fri 12/19/08	Fri 12/19/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
18	OS	Deliver EMS <=> OS to EMS	100%	Mon 6/2/08	Mon 6/2/08
21	OS	Receive Registration => MMS => OS from MMS	100%	Wed 10/29/08	Wed 10/29/08
22	OS	Deliver OS => MMS to MMS	100%	Mon 6/2/08	Mon 6/2/08
24	OS	OS => NMMS => CRR (via EIP)	100%	Mon 6/2/08	Mon 6/2/08
25	OS	Deliver OS => CDR => MIS to CDR	100%	Mon 6/2/08	Mon 6/2/08
27	OS	Deliver OS => EDW => RSS to EDW	100%	Thu 11/13/08	Thu 11/13/08
29	**OS**	**Data Conversion**	**94%**	**Mon 6/2/08**	**Fri 2/20/09**
30	**OS**	**Test Environment Setup**	**100%**	**Mon 6/2/08**	**Mon 6/16/08**
31	OS	N2N Access to Zonal & Nodal db's	100%	Mon 6/2/08	Fri 6/13/08
32	OS	Informatica installed	100%	Mon 6/16/08	Mon 6/16/08
33	OS	Data Mapping	100%	Tue 6/17/08	Thu 7/31/08
34	OS	Conversion Rules Established	100%	Wed 7/30/08	Fri 9/12/08
35	OS	Translation table for station, sub-station & equipment name changes	100%	Wed 7/30/08	Wed 7/30/08
36	**OS**	**Data Dumps to development environment**	**100%**	**Tue 6/17/08**	**Wed 8/27/08**
37	OS	Zonal Outage Scheduler	100%	Tue 6/17/08	Tue 6/17/08
38	OS	Nodal Outage Scheduler	100%	Tue 6/17/08	Tue 6/17/08
39	**OS**	**DB Refesh**	**100%**	**Wed 7/30/08**	**Wed 8/27/08**
40	OS	DB Refesh 1	100%	Wed 7/30/08	Wed 7/30/08
41	OS	DB Refesh 2	100%	Wed 8/27/08	Wed 8/27/08
42	OS	OS Test & Validate	100%	Thu 8/28/08	Mon 10/13/08
43	OS	Zonal Load Iteration 1 & Fixes	100%	Tue 10/14/08	Thu 12/11/08
44	OS	Zonal Load Iteration 2 & Fixes	0%	Mon 2/9/09	Fri 2/20/09
45	**OS**	**Outage Scheduler 2.0.13.0 (ABB Core Product)**	**77%**	**Thu 6/12/08**	**Thu 2/26/09**
46	**OS**	**ABB**	**100%**	**Thu 6/12/08**	**Thu 6/12/08**
47	OS	OS 2.0.13.0 Patch Delivered by ABB	100%	Thu 6/12/08	Thu 6/12/08
48	**OS**	**ERCOT**	**77%**	**Thu 6/12/08**	**Thu 2/26/09**
49	OS	OS 2.0.13.0:Installation into Development	100%	Thu 6/12/08	Wed 6/18/08
50	OS	OS 2.0.13.0:Smoke test on development	100%	Thu 6/19/08	Fri 6/20/08
51	OS	OS 2.0.13.0:MMCR Prepared	100%	Tue 6/24/08	Tue 6/24/08
52	OS	OS 2.0.13.0: Patch released to FAT	100%	Wed 6/25/08	Wed 6/25/08
53	OS	OS 2.0.13.0: Patch Installed in FAT Environment	100%	Thu 6/26/08	Thu 6/26/08
54	**OS**	**Test**	**75%**	**Fri 8/8/08**	**Thu 2/26/09**
55	OS	OS 2.0.13.0: Pre FAT/Regression Testing	100%	Fri 8/8/08	Thu 11/13/08
56	OS	Deliver OS 2.0.13.0: FAT/Regression Test Complete to iTEST	100%	Thu 11/13/08	Thu 11/13/08
58	OS	Additional FAT/Regression Testing	100%	Fri 11/14/08	Fri 11/21/08

Wed 1/14/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
59	**OS**	**FAT/Regression Correction**	**100%**	**Fri 11/21/08**	**Fri 1/9/09**
60	**OS**	**ABB**	**100%**	**Fri 11/21/08**	**Fri 11/21/08**
61	OS	OS 2.1.0.0 Patch Delivered to ERCOT	100%	Fri 11/21/08	Fri 11/21/08
62	**OS**	**ERCOT**	**100%**	**Fri 11/21/08**	**Fri 1/9/09**
63	OS	2.1.0.0: Patch received from ABB	100%	Fri 11/21/08	Fri 11/21/08
64	OS	2.1.0.0: Installed into DEV Environment	100%	Mon 11/24/08	Mon 12/1/08
66	OS	2.1.0.0: Smoke Tested on DEV	100%	Tue 12/2/08	Wed 12/3/08
67	OS	2.1.0.0: MMCR Prepared	100%	Thu 12/4/08	Thu 12/4/08
68	OS	2.1.0.0: Patch Released to FAT	100%	Thu 12/4/08	Thu 12/4/08
69	OS	2.1.0.0: Patch Installed into FAT Environment	100%	Fri 12/5/08	Fri 12/5/08
70	OS	2.1.0.0: SPR Tested & Validated	100%	Mon 12/8/08	Fri 12/12/08
71	OS	2.1.0.0: Regression test	100%	Mon 12/15/08	Fri 1/9/09
72	OS	Deliver 2.1.0.0: Defect Patch to iTEST	100%	Fri 1/9/09	Fri 1/9/09
73	OS	OS 2.1.1.0 Defect Patch	10%	Mon 1/12/09	Thu 1/22/09
74	OS	Deliver 2.1.1.0: Defect Patch to iTEST	0%	Thu 1/22/09	Thu 1/22/09
76	OS	OS 2.1.2.0 Defect Patch	0%	Fri 1/23/09	Thu 2/26/09
77	OS	Deliver OS 2.1.2.0 Defect Patch to iTEST	0%	Thu 2/26/09	Thu 2/26/09
80	**OS**	**OS User Interface**	**52%**	**Thu 6/12/08**	**Tue 4/28/09**
81	OS	OS Base UI to iTEST	100%	Fri 1/9/09	Fri 1/9/09
83	OS	OS Base UI to iTTesting Support	5%	Mon 1/12/09	Fri 2/6/09
84	**OS**	**Refactoring for ABB OS 2.0.11.0 Release (v1.5.0.9)**	**100%**	**Thu 6/12/08**	**Thu 6/26/08**
85	OS	Backend Refactoring of 2.0.11.0 Build (code)	100%	Thu 6/12/08	Thu 6/19/08
86	OS	2.0.11.0:Testing	100%	Mon 6/23/08	Wed 6/25/08
87	OS	MMCR Prepared (v1.5.0.9)	100%	Thu 6/26/08	Thu 6/26/08
88	OS	Release (v1.5.0.9) to FAT/iTest	100%	Thu 6/26/08	Thu 6/26/08
89	**OS**	**Group/Opportunity Outage/OS Feature Pack 1 (v1.x.x.x)**	**75%**	**Wed 6/25/08**	**Tue 3/24/09**
90	**OS**	**Group**	**100%**	**Fri 8/15/08**	**Fri 8/29/08**
91	**OS**	**Development (Create, update, cancel & ungroup)**	**100%**	**Fri 8/15/08**	**Fri 8/29/08**
92	OS	Resource/Transmission	100%	Fri 8/15/08	Fri 8/29/08
93	OS	Back-end work w/web srvices	100%	Fri 8/15/08	Fri 8/29/08
94	OS	Unit Test	100%	Fri 8/15/08	Fri 8/29/08
95	OS	Group Outage MMCR Prepared	100%	Fri 8/15/08	Mon 8/18/08
96	OS	Group Outages Released to Pre-FAT	100%	Mon 8/18/08	Mon 8/18/08
97	**OS**	**Opportunity**	**100%**	**Mon 9/15/08**	**Tue 11/25/08**
98	**OS**	**Development (create, update, cancel, group & ungroup)**	**100%**	**Mon 9/15/08**	**Tue 11/25/08**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
99	OS	Resource/Transmission	100%	Mon 9/15/08	Wed 11/19/08
100	OS	Back-end work w/web services	100%	Wed 10/15/08	Fri 11/14/08
101	OS	Unit Test	100%	Thu 11/20/08	Tue 11/25/08
102	OS	Opportunity Outage MMCR Prepared	100%	Tue 11/25/08	Tue 11/25/08
103	OS	Opportunity Outages Released to Pre-FAT	100%	Tue 11/25/08	Tue 11/25/08
104	**OS**	**OS Feature Pack 1**	**46%**	**Wed 6/25/08**	**Tue 3/24/09**
105	OS	Design for additional features	100%	Wed 6/25/08	Wed 7/2/08
106	**OS**	**Development**	**99%**	**Mon 11/17/08**	**Wed 1/14/09**
107	**OS**	**Tabs**	**99%**	**Mon 11/17/08**	**Wed 1/14/09**
108	**OS**	**Warnings w/o Count**	**100%**	**Mon 11/17/08**	**Tue 12/16/08**
109	OS	OS FP 1: Resource/Transmission	100%	Mon 12/1/08	Fri 12/5/08
110	OS	OS FP 1: Back-end work w/web services	100%	Mon 11/17/08	Wed 12/3/08
111	OS	OS FP 1: Unit Test	100%	Mon 12/8/08	Mon 12/15/08
112	OS	OS FP 1: MMCR Prepared	100%	Mon 12/15/08	Mon 12/15/08
113	OS	OS FP 1 (Warnings) Released to Pre-FAT	100%	Tue 12/16/08	Tue 12/16/08
114	**OS**	**OS Summary Enhancement (Custom Filtering, Actual Start/End)**	**99%**	**Tue 12/16/08**	**Wed 1/14/09**
115	OS	OS Summary Enhancement Resource/Transmission	100%	Tue 12/16/08	Tue 1/6/09
116	OS	OS Summary Enhancement Unit Test	100%	Wed 1/7/09	Wed 1/14/09
117	OS	OS Summary Enhancement MMCR Prepared	100%	Wed 1/14/09	Wed 1/14/09
118	OS	OS Summary Enhancement Releasee to Pre-FAT	10%	Wed 1/14/09	Wed 1/14/09
119	**OS**	**Test**	**0%**	**Thu 1/15/09**	**Mon 2/16/09**
120	OS	OS FP 1: Installed into Pre-FAT	0%	Thu 1/15/09	Thu 1/15/09
121	OS	OS FP 1: Pre-FAT	0%	Fri 1/16/09	Wed 2/4/09
122	OS	OS FP 1: Regression Test	0%	Thu 2/5/09	Thu 2/12/09
123	OS	OS FP 1: Pre-FAT SPR's Corrected	0%	Fri 2/13/09	Mon 2/16/09
124	**OS**	**FAT**	**0%**	**Tue 2/17/09**	**Tue 3/24/09**
125	OS	OS FP1 FAT Build & Installation	0%	Tue 2/17/09	Fri 2/20/09
126	OS	OS FP1 FAT	0%	Mon 2/23/09	Tue 3/24/09
127	OS	Deliver OS FP 1 to iTEST	0%	Tue 3/24/09	Tue 3/24/09
129	OS	Grp/Opp/FP1 FAT/iTest Complete	0%	Tue 3/24/09	Tue 3/24/09
130	**OS**	**OS Feature Pack 2 (v1.x.x.x)**	**22%**	**Thu 12/4/08**	**Tue 4/28/09**
131	**OS**	**OS Copy/Print/Export**	**51%**	**Thu 12/4/08**	**Tue 2/3/09**
132	OS	OS Copy/Print/Export Resource/Transmission	70%	Thu 1/15/09	Thu 1/22/09
133	OS	OS Copy/Print/Export Unit Test	0%	Fri 1/23/09	Fri 1/30/09
134	OS	OS Copy/Print/Export MMCR Prepared	0%	Mon 2/2/09	Mon 2/2/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
135	OS	OS Copy/Print/Export Released to Pre-FAT	0%	Tue 2/3/09	Tue 2/3/09
136	OS	OS Copy/Print/Export Back-end work w/web services	100%	Thu 12/4/08	Thu 12/11/08
137	**OS**	**OS Summary/Split Detail Screen (Second Window)**	**0%**	**Mon 2/2/09**	**Wed 2/11/09**
138	OS	OS Summary/Split Detail Screen (Second Window) Resource/Transmission	0%	Mon 2/2/09	Wed 2/4/09
139	OS	OS Summary/Split Detail Screen (Second Window) Unit Test	0%	Thu 2/5/09	Mon 2/9/09
140	OS	OS Summary/Split Detail Screen (Second Window) MMCR Prepared	0%	Tue 2/10/09	Tue 2/10/09
141	OS	OS Summary/Split Detail Screen (Second Window) Released to Pre-FAT	0%	Wed 2/11/09	Wed 2/11/09
142	**OS**	**OS Client-side Validation**	**46%**	**Fri 12/12/08**	**Thu 2/26/09**
143	OS	OS Client-side Validation Resource/Transmission	0%	Tue 2/10/09	Tue 2/17/09
144	OS	OS Client-side Validation Unit Test	0%	Wed 2/18/09	Wed 2/25/09
145	OS	OS Client-side Validation MMCR Prepared	0%	Thu 2/26/09	Thu 2/26/09
146	OS	OS Client-side Validation Released to Pre-FAT	0%	Thu 2/26/09	Thu 2/26/09
147	OS	OS Client-side Validation Back-end work w/web services	100%	Fri 12/12/08	Fri 1/9/09
148	**OS**	**Test**	**0%**	**Fri 2/27/09**	**Fri 3/20/09**
149	OS	OS FP 2 Installed into Pre-FAT	0%	Fri 2/27/09	Fri 2/27/09
150	OS	OS FP 2 Pre-FAT	0%	Mon 3/2/09	Mon 3/9/09
151	OS	OS FP 2 Regression	0%	Tue 3/10/09	Tue 3/17/09
152	OS	OS FP 2 SPR's Corrected & Tested	0%	Wed 3/18/09	Fri 3/20/09
153	**OS**	**FAT**	**0%**	**Mon 3/23/09**	**Tue 4/28/09**
154	OS	OS FP2 FAT Build & Installation	0%	Mon 3/23/09	Thu 3/26/09
155	OS	OS FP2 FAT	0%	Fri 3/27/09	Tue 4/28/09
156	OS	Deliver OS Feature Pack 2 to iTEST	0%	Tue 4/28/09	Tue 4/28/09
158	OS	Tomcat/Jboss Conversion	50%	Mon 1/12/09	Tue 2/24/09
159	OS	Performance Testing	0%	Wed 2/25/09	Thu 4/2/09
160	**OS**	**Integration**	**33%**	**Thu 10/30/08**	**Tue 4/28/09**
161	OS	Registration & Equipment list Synced with MMS	100%	Thu 10/30/08	Thu 10/30/08
162	OS	Zonal Outage Data Load	0%	Mon 3/2/09	Tue 3/3/09
163	OS	iTest Support Identified	0%	Tue 4/28/09	Tue 4/28/09
164	OS	EDS Support	0%	Tue 4/28/09	Tue 4/28/09
165	**OS**	**Post 2.1.0.0 / Pre 168-Hour Test**	**0%**	**Mon 3/9/09**	**Fri 4/10/09**
166	OS	OS 2.1.3.0 Defect Patch	0%	Mon 3/9/09	Fri 4/10/09
167	OS	Deliver OS 2.1.3.0 Defect Patch to iTEST	0%	Fri 4/10/09	Fri 4/10/09
169	**OS**	**Documentation**	**8%**	**Mon 6/2/08**	**Tue 5/19/09**
170	**OS**	**RUP Artifacts**	**7%**	**Mon 6/2/08**	**Tue 5/19/09**
171	OS	OS Requirements Document	100%	Mon 6/2/08	Mon 6/2/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
172	OS	OS Conceptual System Design Document	100%	Mon 6/2/08	Mon 6/2/08
173	OS	OS Detail Design Document	100%	Mon 6/2/08	Mon 6/2/08
174	OS	OS Use Cases	100%	Mon 6/2/08	Mon 6/2/08
175	OS	OS Test Plans, Cases, Scripts	100%	Mon 6/2/08	Mon 6/2/08
176	OS	OS Process Maps	100%	Mon 6/2/08	Mon 6/2/08
177	OS	OS Procedures	5%	Mon 1/12/09	Tue 3/3/09
178	**OS**	**Reviews & Updates**	**1%**	**Mon 1/12/09**	**Tue 5/19/09**
179	OS	OS Requirements Coverage Assessment	5%	Mon 1/12/09	Fri 1/30/09
180	OS	OS Conceptual System Design Document Review	0%	Mon 2/2/09	Fri 2/20/09
181	OS	OS Detail Design Document Updates	0%	Mon 2/23/09	Fri 3/13/09
182	OS	OS Test Plans, Cases, Scripts Updates	0%	Mon 3/16/09	Fri 4/3/09
183	OS	OS EDS Document Reviews	0%	Wed 4/29/09	Tue 5/19/09
184	**OS**	**User Guides**	**9%**	**Mon 6/2/08**	**Tue 5/12/09**
185	OS	OS Requestor User Interface (RUI)	0%	Wed 4/29/09	Tue 5/12/09
186	OS	OS Operator User Interface (OUI)	100%	Mon 6/2/08	Mon 6/2/08
187	OS	OS Test Scripts for new Functionality Delivered	100%	Thu 6/12/08	Thu 6/12/08
188	OS	OS Operating Guide Delivered	100%	Mon 6/2/08	Mon 6/2/08
189	OS	Gather Requirements for System Monitoring Document	5%	Mon 1/12/09	Fri 1/23/09
190	OS	Support Completion of System Monitoring Document	0%	Mon 1/26/09	Fri 2/20/09
191	OS	Training - RUI	0%	Wed 4/29/09	Wed 4/29/09
192	OS	Training - MA	0%	Wed 4/29/09	Fri 5/1/09
193	**OS**	**Release management**	**0%**	**Mon 6/2/08**	**Tue 4/28/09**
194	**OS**	**OS Core**	**100%**	**Wed 6/25/08**	**Thu 12/4/08**
195	OS	Release 2.0.13.0	100%	Wed 6/25/08	Wed 6/25/08
196	OS	Release 2.1.0.0	100%	Thu 12/4/08	Thu 12/4/08
197	**OS**	**OS UI**	**0%**	**Mon 6/2/08**	**Tue 4/28/09**
198	OS	Release v1.3.0.6 Released to FAT	100%	Mon 6/2/08	Mon 6/2/08
199	OS	Release v1.4.0.8 Released to FAT	100%	Mon 6/2/08	Mon 6/2/08
200	OS	Release v1.5.0.9 Released to FAT	100%	Mon 6/2/08	Mon 6/2/08
201	OS	Release v1.x.x.x (OS FP-1 Warnings with Count) Released to FAT	100%	Tue 12/16/08	Tue 12/16/08
202	OS	Release v1.x.x.x (OS FP-1 Summary Enhancements, Copy/Print/Export, Summary/Split Released to FAT	0%	Thu 2/26/09	Thu 2/26/09
203	OS	Release v1.x.x.x (OS FP-2) Released to FAT	0%	Tue 4/28/09	Tue 4/28/09
204	OS	Interfaces Releases-Data Loads	5%	Mon 1/5/09	Fri 4/24/09
205	OS	Defect management	19%	Mon 6/2/08	Fri 3/27/09
206	**OS**	**Change Control**	**0%**	**Mon 3/30/09**	**Fri 4/24/09**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
207	OS	Mimic Duns Tested & Implemented	0%	Mon 3/30/09	Fri 4/24/09
208	OS	OS Project End	0%	Tue 5/19/09	Tue 5/19/09
7	**Nodal IPS**	**CDR - Current Day Reporting**	**61%**	**Mon 6/2/08**	**Thu 3/12/09**
1	CDR	CDR Replan Start	100%	Mon 6/2/08	Mon 6/2/08
2	**CDR**	**Requirements & Planning**	**100%**	**Mon 6/2/08**	**Fri 8/15/08**
3	CDR	Draft DashBoard Specs	100%	Mon 6/2/08	Wed 6/11/08
5	CDR	Receive EMS Schema Info for CDR 3C Available from EMS	100%	Fri 8/8/08	Fri 8/8/08
7	CDR	Receive MMS Schema Info for CDR 3C Available from MMS	100%	Fri 8/8/08	Fri 8/8/08
8	CDR	CDR Report Specs - CDR 3C	100%	Fri 8/8/08	Fri 8/15/08
9	**CDR**	**Implementation**	**82%**	**Mon 6/2/08**	**Thu 2/19/09**
10	**CDR**	**Develop CDR 3B Reports**	**100%**	**Mon 6/2/08**	**Fri 7/18/08**
11	CDR	CDR 3B Reports - Coding Completed	100%	Mon 6/2/08	Tue 6/10/08
12	CDR	CDR 3B Reports - Code Reviews Completed	100%	Wed 6/11/08	Wed 6/11/08
13	CDR	CDR 3B Reports - Unit Tests Completed (Test Results)	100%	Thu 6/12/08	Mon 6/16/08
14	CDR	Source System Data Available - CDR 3B Reports	100%	Mon 6/16/08	Mon 6/16/08
15	CDR	Migration Control Doc - CDR 3B Completed	100%	Mon 6/16/08	Mon 6/16/08
17	CDR	Receive CDR 3B Development Completed to MIS from EMS	100%	Fri 7/18/08	Fri 7/18/08
19	**CDR**	**Develop CDR 3C Reports / Enterprise App Features**	**100%**	**Mon 6/2/08**	**Tue 10/28/08**
20	CDR	EMS Views/Tables/Data for CDR 3C Available in DEV	100%	Mon 8/11/08	Mon 8/11/08
21	CDR	MMS Views/Tables/Data for CDR 3C Available in DEV	100%	Mon 8/11/08	Mon 8/11/08
22	**CDR**	**CDR 3C Feature Development**	**100%**	**Mon 6/2/08**	**Tue 10/28/08**
23	**CDR**	**CDR 3C Application Features**	**100%**	**Mon 6/2/08**	**Thu 7/10/08**
24	**CDR**	**Analysis for MIS DashBoards & ODS Access**	**100%**	**Mon 6/2/08**	**Thu 7/10/08**
25	CDR	Analysis & POC of Dashboard DB Link	100%	Mon 6/2/08	Wed 6/11/08
26	CDR	Doc of POC for Future Implementation	100%	Thu 6/12/08	Wed 6/18/08
27	CDR	Dashboard POC Knowledge Transfer	100%	Thu 6/12/08	Wed 6/18/08
28	CDR	Investigate ODS Access	100%	Thu 6/19/08	Wed 7/2/08
29	CDR	Doc for Devs regarding ODS Access & Queries	100%	Thu 7/3/08	Thu 7/10/08
30	**CDR**	**CDR 3C Infrastructure Features**	**100%**	**Wed 7/30/08**	**Thu 9/4/08**
31	CDR	Failover	100%	Thu 7/31/08	Fri 8/8/08
32	CDR	Extract Engine Completion (Dev & Unit Test)	100%	Wed 7/30/08	Thu 9/4/08
33	**CDR**	**Direct Posting to MIR**	**100%**	**Mon 8/11/08**	**Wed 8/27/08**
34	CDR	Design	100%	Mon 8/11/08	Wed 8/13/08
35	CDR	Implementation	100%	Thu 8/14/08	Wed 8/20/08
36	CDR	Unit Testing	100%	Thu 8/21/08	Wed 8/27/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
37	**CDR**	**CDR 3C Load Balancing Features**	**100%**	**Wed 7/30/08**	**Tue 9/9/08**
38	CDR	Design	100%	Wed 7/30/08	Fri 8/1/08
39	CDR	Load Balancing	100%	Thu 8/28/08	Thu 9/4/08
40	CDR	Unit Testing	100%	Fri 9/5/08	Tue 9/9/08
41	**CDR**	**CDR Web Services Analysis (WILL NEED TO ADD TASKS PER OUTCOME)**	**100%**	**Tue 7/1/08**	**Fri 8/15/08**
42	CDR	Resolution of Web Service Scope in CDR	100%	Tue 7/1/08	Tue 7/1/08
43	CDR	Analysis of CDR Web Services (Mapping EWS to MIR Reports)	100%	Mon 8/11/08	Fri 8/15/08
44	**CDR**	**CDR 3C Scheduled Reports**	**100%**	**Thu 8/21/08**	**Tue 10/28/08**
45	CDR	CDR 3C Reports - Coding Completed	100%	Thu 8/21/08	Thu 10/2/08
46	CDR	CDR 3C - Code Reviews Completed	100%	Fri 10/3/08	Wed 10/8/08
47	CDR	Fixes to CDR 3B Integration Testing Issues Completed	100%	Wed 10/8/08	Wed 10/8/08
48	CDR	CDR 3C - Final Unit Tests Completed (Test Results)	100%	Thu 10/9/08	Mon 10/13/08
51	CDR	Receive EMS Views/Tables/Data for CDR 3C Available in iTEST from EMS	100%	Thu 10/23/08	Thu 10/23/08
52	CDR	Migration Control Doc & Migration to iTEST - CDR 3C Completed	100%	Fri 10/24/08	Tue 10/28/08
53	CDR	Deliver CDR 3C Development Completed to MIS	100%	Tue 10/28/08	Tue 10/28/08
55	**CDR**	**Develop CDR 4.0 Enterprise App Features**	**55%**	**Mon 6/2/08**	**Thu 2/19/09**
56	**CDR**	**Report Reproducibility**	**95%**	**Wed 10/29/08**	**Mon 1/12/09**
57	CDR	Analysis & Design	100%	Wed 10/29/08	Mon 12/1/08
58	CDR	Application Service (to Reproduce Report)	100%	Tue 12/2/08	Wed 1/7/09
59	CDR	Unit Testing - Report Reproducibility Service	25%	Thu 1/8/09	Mon 1/12/09
60	**CDR**	**DB Failover/Recovery (DataGuard)**	**32%**	**Thu 12/11/08**	**Thu 2/19/09**
61	CDR	Updating TA Document	100%	Thu 12/11/08	Thu 12/11/08
62	CDR	Getting Approval from IT Manager	100%	Fri 12/12/08	Wed 12/17/08
63	CDR	CRQ - LPAR	50%	Thu 12/18/08	Thu 1/22/09
64	CDR	Storage Request	0%	Fri 1/23/09	Mon 2/2/09
65	CDR	Stand by Build	0%	Tue 2/3/09	Mon 2/16/09
66	CDR	Fail Over Test	0%	Tue 2/17/09	Thu 2/19/09
67	CDR	Fixes for Issues Found in Integration Testing	0%	Tue 1/13/09	Wed 1/14/09
68	CDR	Report Updates Reflecting MMS/EMS Schema Changes	0%	Tue 1/13/09	Wed 1/14/09
69	CDR	Developers - CDR Optimization	0%	Tue 1/13/09	Wed 1/14/09
70	CDR	Reports Development	0%	Tue 1/13/09	Wed 1/14/09
72	CDR	Receive Verification of Staging Table/Views & Data Population from MMS	100%	Tue 11/4/08	Tue 11/4/08
73	CDR	Final Unit Testing	0%	Thu 1/15/09	Fri 1/16/09
75	CDR	Receive Updated OS Views/Tables/Data for CDR Available in iTEST from OS	100%	Mon 6/2/08	Mon 6/2/08
77	CDR	Receive Updated EMS Views/Tables/Data for CDR Available in iTEST from EMS	0%	Fri 12/19/08	Fri 12/19/08

Wed 1/14/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
78	CDR	Migration Control Doc & Migration to iTEST - CDR 4.0 Completed	0%	Mon 1/19/09	Tue 1/20/09
79	CDR	CDR 4.0 Development Completed	0%	Tue 1/20/09	Tue 1/20/09
80	**CDR**	**Test**	**82%**	**Mon 6/2/08**	**Fri 1/23/09**
81	**CDR**	**FAT Testing - CDR 3A Reports**	**100%**	**Mon 6/2/08**	**Wed 6/11/08**
82	CDR	FAT Testing - CDR 3A Reports	100%	Mon 6/2/08	Tue 6/10/08
83	CDR	FAT Test Results Completed - CDR 3A Reports	100%	Wed 6/11/08	Wed 6/11/08
84	**CDR**	**FAT Testing - CDR 3B Reports**	**100%**	**Mon 7/21/08**	**Fri 8/1/08**
85	CDR	FAT Testing - CDR 3B Reports	100%	Mon 7/21/08	Thu 7/31/08
86	CDR	FAT Test Results Completed - CDR 3B Reports	100%	Fri 8/1/08	Fri 8/1/08
87	**CDR**	**iTEST Testing - CDR 3C Reports & Enterprise App Features**	**100%**	**Tue 9/23/08**	**Fri 10/31/08**
88	CDR	CDR Test Cases Completed	100%	Tue 9/23/08	Wed 10/15/08
89	CDR	iTEST Test Scripts for Reports	100%	Fri 10/3/08	Fri 10/17/08
90	CDR	iTEST Test Scripts for Load Balancing	100%	Mon 10/20/08	Fri 10/31/08
91	CDR	Deliver CDR 3C to iTEST	100%	Fri 10/31/08	Fri 10/31/08
93	**CDR**	**iTEST Testing - CDR 4.0 Enterprise App Features**	**0%**	**Thu 1/15/09**	**Fri 1/23/09**
94	CDR	CDR Test Cases Completed	0%	Thu 1/15/09	Wed 1/21/09
95	CDR	iTEST Test Scripts	0%	Thu 1/15/09	Fri 1/23/09
96	CDR	Deliver CDR 4.0 to iTEST	0%	Fri 1/23/09	Fri 1/23/09
98	**CDR**	**Deployment**	**0%**	**Thu 6/19/08**	**Thu 3/12/09**
99	CDR	Deliver CDR 3A to EDS 4 (Austin), Release 9.5	100%	Thu 6/19/08	Thu 6/19/08
100	CDR	Deliver CDR 3B to EDS Taylor (iTEST)	100%	Fri 8/1/08	Fri 8/1/08
101	**CDR**	**CDR User Guide**	**0%**	**Wed 1/21/09**	**Tue 2/10/09**
102	CDR	User Guide Draft	0%	Wed 1/21/09	Tue 2/3/09
103	CDR	User Guide Review	0%	Wed 2/4/09	Fri 2/6/09
104	CDR	User Guide Completed	0%	Mon 2/9/09	Tue 2/10/09
105	**CDR**	**CDR Operations Guide (includes SLA)**	**0%**	**Wed 1/21/09**	**Tue 2/24/09**
106	CDR	Operations Guide Draft	0%	Wed 1/21/09	Tue 2/17/09
107	CDR	Operations Guide Review	0%	Wed 2/18/09	Fri 2/20/09
108	CDR	Operations Guide Completed	0%	Mon 2/23/09	Tue 2/24/09
109	**CDR**	**CDR Reference Guide**	**0%**	**Wed 1/21/09**	**Thu 3/12/09**
110	CDR	Reference Guide Draft	0%	Wed 1/21/09	Tue 2/10/09
111	CDR	Reference Guide Review	0%	Wed 2/11/09	Tue 3/10/09
112	CDR	Reference Guide Completed	0%	Wed 3/11/09	Thu 3/12/09
113	**CDR**	**Training & Transition**	**0%**	**Wed 1/21/09**	**Wed 2/18/09**
114	CDR	Train Home Team on Supporting / Enhancing CDR	0%	Wed 1/21/09	Tue 2/17/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
115	CDR	Provide Content for Training to Training Organization	0%	Wed 1/21/09	Tue 2/17/09
116	CDR	User Training	0%	Wed 2/18/09	Wed 2/18/09
117	CDR	CDR Project End	0%	Thu 3/12/09	Thu 3/12/09
8	**Nodal IPS**	**EDW - Enterprise Data Warehouse**	**37%**	**Mon 6/2/08**	**Mon 9/13/10**
1	**EDW**	**Nodal EDW Project**	**37%**	**Mon 6/2/08**	**Mon 9/13/10**
2	EDW	EDW Replan Start	100%	Mon 6/2/08	Mon 6/2/08
3	**EDW**	**EDW Deliveries**	**100%**	**Wed 10/14/09**	**Wed 10/14/09**
4	EDW	Deliver EDW Reports & Extracts for MIS Build 11 to MIS	100%	Wed 10/14/09	Wed 10/14/09
6	**EDW**	**EDW 1A (EDW ITEST)**	**100%**	**Mon 6/2/08**	**Fri 9/5/08**
7	**EDW**	**Infrastructure**	**100%**	**Mon 6/2/08**	**Tue 7/1/08**
8	EDW	One quarter's worth of data in ITEST available	100%	Mon 6/2/08	Tue 7/1/08
9	**EDW**	**State estimator & telemetry reporting & extracts**	**100%**	**Mon 6/2/08**	**Fri 9/5/08**
10	**EDW**	**State estimator extracts**	**100%**	**Mon 6/2/08**	**Thu 8/28/08**
11	**EDW**	**State estimator monthly statistics extract**	**100%**	**Mon 6/2/08**	**Wed 8/27/08**
12	EDW	Migrated to ITEST for testing	100%	Mon 6/2/08	Tue 6/3/08
13	EDW	Testing Support (defect fixes, refactoring)	100%	Tue 7/15/08	Wed 8/20/08
14	EDW	Deliver Extracts made availabe to MIS	100%	Wed 8/20/08	Wed 8/20/08
15	EDW	INT & UAT approval in ITEST	100%	Thu 8/21/08	Wed 8/27/08
16	EDW	State estimator monthly statistics extract complete	100%	Wed 8/27/08	Wed 8/27/08
17	**EDW**	**State Estimator Data Mart**	**100%**	**Mon 6/2/08**	**Thu 8/28/08**
18	EDW	Migrated to ITEST for testing	100%	Mon 6/2/08	Tue 6/3/08
19	EDW	Testing Support (defect fixes, refactoring)	100%	Tue 7/15/08	Thu 8/21/08
20	EDW	INT & UAT approval in ITEST	100%	Fri 8/22/08	Thu 8/28/08
21	EDW	State estimator data mart complete	100%	Thu 8/28/08	Thu 8/28/08
22	**EDW**	**State Estimator Reports**	**100%**	**Mon 6/2/08**	**Fri 9/5/08**
23	EDW	Migrated to ITEST for testing	100%	Mon 6/2/08	Tue 6/3/08
24	EDW	Testing Support (defect fixes, refactoring)	100%	Tue 7/15/08	Thu 8/21/08
25	EDW	Deliver Reports made available to MIS	100%	Thu 8/21/08	Thu 8/21/08
27	EDW	Business approval	100%	Fri 8/22/08	Fri 9/5/08
28	EDW	Report(s) complete in ITEST	100%	Fri 9/5/08	Fri 9/5/08
29	EDW	EDW 1A complete	100%	Fri 9/5/08	Fri 9/5/08
30	**EDW**	**EDW 1B (EDW ITEST)**	**100%**	**Mon 6/2/08**	**Tue 9/9/08**
31	**EDW**	**PI Staging**	**100%**	**Mon 6/2/08**	**Mon 8/4/08**
32	EDW	Migrate PI staging into ITEST for testing	100%	Mon 6/2/08	Mon 6/2/08
33	EDW	Testing Support (defect fixes, refactoring)	100%	Tue 7/1/08	Mon 8/4/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
34	EDW	PI Staging Complete	100%	Mon 8/4/08	Mon 8/4/08
35	**EDW**	**Telemetry Data Mart**	**100%**	**Mon 6/2/08**	**Tue 8/5/08**
36	EDW	Migrate data mart into ITEST for Testing	100%	Mon 6/2/08	Tue 6/3/08
37	EDW	Testing Support (defect fixes, refactoring)	100%	Wed 7/2/08	Tue 8/5/08
38	EDW	Telemetry Data Mart Complete	100%	Tue 8/5/08	Tue 8/5/08
39	**EDW**	**Telemetry Reports**	**100%**	**Mon 6/2/08**	**Tue 9/9/08**
40	**EDW**	**Reports that need one month's data in ITEST**	**100%**	**Mon 6/2/08**	**Fri 8/22/08**
41	EDW	Migrate into ITEST for Testing	100%	Mon 6/2/08	Tue 6/3/08
42	EDW	Testing Support (defect fixes, refactoring)	100%	Tue 7/15/08	Fri 8/8/08
43	EDW	Reports available to MIS	100%	Fri 8/8/08	Fri 8/8/08
44	EDW	Business approval	100%	Mon 8/11/08	Fri 8/22/08
45	EDW	Telemetry Reports (month's data) complete	100%	Fri 8/22/08	Fri 8/22/08
46	**EDW**	**Reports that need one quarter's data in ITEST**	**100%**	**Mon 6/2/08**	**Tue 9/9/08**
47	EDW	Migrate into ITEST for Testing	100%	Mon 6/2/08	Tue 6/3/08
48	EDW	Testing Support (defect fixes, refactoring)	100%	Tue 7/15/08	Mon 8/25/08
49	EDW	Reports available to MIS	100%	Mon 8/25/08	Mon 8/25/08
50	EDW	Business approval	100%	Tue 8/26/08	Tue 9/9/08
51	EDW	Telemetry Reports (quarter's data) complete	100%	Tue 9/9/08	Tue 9/9/08
52	EDW	Telemetry Reports Complete	100%	Tue 9/9/08	Tue 9/9/08
53	EDW	EDW 1B Complete	100%	Tue 9/9/08	Tue 9/9/08
54	**EDW**	**EDW 1C (EDW ITEST)**	**100%**	**Mon 6/2/08**	**Thu 10/23/08**
55	**EDW**	**Dimensional Maintenance Tool (DMT) - EDW ITEST**	**100%**	**Fri 7/11/08**	**Fri 8/15/08**
56	EDW	Migrate into ITEST for testing	100%	Fri 7/11/08	Thu 8/7/08
57	EDW	Testing Support (defect fixes, refactoring)	100%	Wed 7/16/08	Fri 8/8/08
58	EDW	Business Approval	100%	Mon 8/11/08	Fri 8/15/08
59	EDW	Dimensional Maint. Tool Complete	100%	Fri 8/15/08	Fri 8/15/08
60	**EDW**	**Replication**	**100%**	**Mon 6/2/08**	**Wed 7/16/08**
61	**EDW**	**EMS replication: EMS EDS to EDW ITEST (Phase 2)**	**100%**	**Mon 6/2/08**	**Wed 7/16/08**
62	EDW	install target system replication into ITEST for testing	100%	Mon 6/2/08	Fri 6/6/08
64	EDW	Receive EMS Replication patch from EMS	100%	Tue 6/10/08	Tue 6/10/08
65	EDW	Testing Support (defect fixes)	100%	Wed 6/11/08	Wed 7/9/08
66	EDW	Business Approval	100%	Thu 7/10/08	Wed 7/16/08
67	EDW	EMS (Phase 2) replication complete	100%	Wed 7/16/08	Wed 7/16/08
68	**EDW**	**Dynamic Report Posting Solution**	**100%**	**Mon 6/23/08**	**Thu 10/23/08**
69	EDW	Design & Develop DRP	100%	Mon 6/23/08	Mon 8/4/08

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ID	Project Name	Task Name	% Complete	Start	Finish
70	EDW	Migrate DRP into ITEST	100%	Thu 9/4/08	Thu 9/11/08
71	EDW	Testing Support (defect fixes, refactoring)	100%	Fri 9/12/08	Thu 10/9/08
72	EDW	Business Approval	100%	Fri 10/10/08	Thu 10/23/08
73	EDW	Dynamic Report Posting Solution Complete	100%	Thu 10/23/08	Thu 10/23/08
74	EDW	EDW 1C Complete	100%	Thu 10/23/08	Thu 10/23/08
75	**EDW**	**EDW 2B (EDW ITEST)**	**73%**	**Fri 6/13/08**	**Thu 3/12/09**
76	**EDW**	**Replication**	**100%**	**Fri 6/13/08**	**Tue 9/23/08**
77	**EDW**	**CRR replication: CRR EDS to EDW ITEST (Phase 2)**	**100%**	**Fri 6/13/08**	**Tue 9/23/08**
79	EDW	Receive CRR Source System Data ready from CRR	100%	Fri 6/13/08	Fri 6/13/08
80	EDW	Developing replication tables	100%	Tue 7/8/08	Thu 7/31/08
81	EDW	Migrate tables into ITEST	100%	Fri 8/1/08	Mon 8/4/08
82	EDW	Testing Support (bug fix, refactoring, etc.)	100%	Tue 8/5/08	Tue 9/9/08
83	EDW	CRR Replication Business Approval	100%	Wed 9/10/08	Tue 9/23/08
84	EDW	CRR Replication complete	100%	Tue 9/23/08	Tue 9/23/08
85	**EDW**	**COMS Shadow Settlements Extracts**	**50%**	**Mon 6/16/08**	**Thu 3/5/09**
86	EDW	Testing Support (bug fix, refactoring, etc.) for available data	100%	Mon 6/16/08	Mon 7/21/08
87	EDW	Business Approval	100%	Tue 7/15/08	Mon 7/21/08
88	EDW	Receive data agg. Data needed from COMS	0%	Fri 1/23/09	Fri 1/23/09
89	EDW	Deliver Data Agg to iTEST	0%	Fri 1/23/09	Fri 1/23/09
91	EDW	Re-Testing Support for re-test of data with correct data (bug fixes, refactoring)	0%	Fri 1/23/09	Thu 2/19/09
92	EDW	Extracts available to MIS	0%	Thu 2/19/09	Thu 2/19/09
93	EDW	Business Approval	0%	Fri 2/20/09	Thu 3/5/09
94	EDW	COMS Shadow Settlement Extracts Complete	0%	Thu 3/5/09	Thu 3/5/09
95	**EDW**	**Lodestar Parser**	**100%**	**Mon 6/16/08**	**Tue 9/2/08**
96	EDW	Testing (bug fix, refactoring, etc.)	100%	Mon 6/16/08	Mon 7/21/08
97	EDW	Business Approval	100%	Tue 7/15/08	Mon 7/21/08
98	EDW	COMS data agg. Data needed	100%	Mon 7/21/08	Mon 7/21/08
99	EDW	Re-Testing Support for re-test of data with correct data (bug fixes, refactoring)	100%	Tue 7/22/08	Mon 8/18/08
100	EDW	Business Approval	100%	Tue 8/19/08	Tue 9/2/08
101	EDW	Lodestar parser complete in ITEST	100%	Tue 10/14/08	Tue 10/14/08
102	**EDW**	**Trigger Mechanism**	**46%**	**Mon 6/16/08**	**Thu 3/12/09**
103	EDW	Testing (bug fix, refactoring, etc.)	100%	Mon 6/16/08	Mon 7/21/08
104	EDW	Business Approval	100%	Tue 7/15/08	Mon 7/21/08
105	EDW	COMS data agg. Data needed	0%	Fri 1/23/09	Fri 1/23/09
106	EDW	Re-Testing Support for re-test of data with correct data (bug fixes, refactoring)	0%	Fri 1/23/09	Thu 2/26/09

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ID	Project Name	Task Name	% Complete	Start	Finish
107	EDW	Business Approval	0%	Fri 2/27/09	Thu 3/12/09
108	EDW	Trigger Mechanism complete in ITEST	0%	Thu 3/12/09	Thu 3/12/09
109	EDW	EDW 2B Complete	0%	Thu 3/12/09	Thu 3/12/09
110	**EDW**	**EDW-MIS**	**0%**	**Fri 3/13/09**	**Fri 3/27/09**
112	EDW	Deliver MIS extract scheduler interface build to iTEST	0%	Fri 3/13/09	Fri 3/13/09
114	EDW	Set up DDM interfacing with extract scheduler & Rework (still discussing on who has this)	0%	Mon 3/16/09	Fri 3/27/09
115	EDW	EDW-MIS Complete	0%	Fri 3/27/09	Fri 3/27/09
116	**EDW**	**EDW-MMS**	**17%**	**Tue 7/22/08**	**Mon 9/13/10**
117	**EDW**	**MMS Release 1**	**17%**	**Wed 10/1/08**	**Thu 5/7/09**
119	EDW	Receive MMS RSS source available from MMS	100%	Wed 10/1/08	Wed 10/1/08
120	**EDW**	**MMS EDS to EDW ITEST (Phase 1) Replicaton**	**38%**	**Wed 10/1/08**	**Thu 2/12/09**
121	EDW	MMS Source environment ready	100%	Wed 10/1/08	Wed 10/1/08
122	EDW	MMS Phase 1 Repliction Bundle Development	100%	Thu 10/2/08	Wed 10/15/08
123	EDW	Migrate MMS Phase 1 Replication to iTest	100%	Thu 10/16/08	Mon 10/20/08
124	EDW	Deliver Migrated MMS Phase 1 Replication to iTEST	100%	Mon 10/20/08	Mon 10/20/08
126	EDW	MMS 4 Replication Testing Support (bug fix, refactoring, etc.)	0%	Thu 1/15/09	Thu 2/12/09
127	EDW	MMS replication complete	0%	Thu 2/12/09	Thu 2/12/09
128	**EDW**	**MMS Extract (NP6-584-ER Security Violations & Binding Transmission Constraints)**	**43%**	**Wed 10/22/08**	**Fri 4/3/09**
130	EDW	Receive MMS4_P5: DEV Build & Test from MMS	100%	Wed 10/22/08	Wed 10/22/08
131	EDW	MMS Source system data available	100%	Thu 10/23/08	Fri 10/31/08
132	EDW	Design & Develop extracts	100%	Mon 11/3/08	Mon 11/17/08
133	EDW	Unit test	50%	Tue 11/18/08	Wed 2/18/09
134	EDW	Development Complete ready for iTEST (App. Support Mat. & Trg)	0%	Thu 2/19/09	Fri 2/20/09
135	EDW	Deliver Migrated extract into ITEST (App. Support Mat. & Trg)	0%	Fri 2/20/09	Fri 2/20/09
137	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Mon 2/23/09	Fri 3/13/09
138	EDW	Re-Testing Support	0%	Mon 3/16/09	Fri 3/27/09
139	EDW	Extract available to MIS	0%	Fri 3/27/09	Fri 3/27/09
140	EDW	Business verification/approval	0%	Mon 3/30/09	Fri 4/3/09
141	EDW	MMS Extract complete in ITEST	0%	Fri 4/3/09	Fri 4/3/09
142	**EDW**	**MMS (Section 8) COP Report**	**2%**	**Fri 10/31/08**	**Thu 4/16/09**
143	EDW	MMS Source system data available	100%	Fri 10/31/08	Fri 10/31/08
144	EDW	Reporting requirements approved and/or updated	5%	Mon 11/3/08	Mon 1/19/09
145	EDW	Design & Develop (tech spec, report, test cases)	0%	Tue 1/20/09	Tue 2/3/09
146	EDW	Test report - DEV	0%	Wed 2/4/09	Tue 2/24/09
147	EDW	Migrate report into FAT	0%	Wed 2/25/09	Thu 2/26/09

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ID	Project Name	Task Name	% Complete	Start	Finish
148	EDW	Test & receive approval of report in FAT	0%	Fri 2/27/09	Thu 3/12/09
149	EDW	Migrate extract into ITEST (App. Support Mat. & Trg)	0%	Fri 3/13/09	Thu 3/19/09
150	EDW	Deliver Migrated COP Extract into ITEST (App. Support Mat. & Trg)	0%	Thu 3/19/09	Thu 3/19/09
152	EDW	Testing Suppport (bug fixes & re-factoring)	0%	Fri 3/20/09	Thu 4/9/09
153	EDW	Report available to MIS	0%	Thu 4/9/09	Thu 4/9/09
154	EDW	Business verification/approval	0%	Fri 4/10/09	Thu 4/16/09
155	EDW	COP Report Complete	0%	Thu 4/16/09	Thu 4/16/09
156	**EDW**	**MMS (Section 8) RUC Report**	**2%**	**Fri 10/31/08**	**Thu 5/7/09**
157	EDW	MMS Source system data available	100%	Fri 10/31/08	Fri 10/31/08
158	EDW	Reporting requirements approved and/or updated	5%	Mon 11/3/08	Mon 1/19/09
159	EDW	Design & Develop (tech spec, report, test cases)	0%	Tue 1/20/09	Tue 2/3/09
160	EDW	Test report - DEV	0%	Wed 2/4/09	Tue 2/24/09
161	EDW	Migrate report into FAT	0%	Wed 2/25/09	Thu 2/26/09
162	EDW	Test & receive approval of report in FAT	0%	Fri 2/27/09	Thu 3/12/09
163	EDW	Migrate extract into ITEST (App. Support Mat. & Trg)	0%	Fri 3/13/09	Thu 3/19/09
164	EDW	Deliver Migrated RUC extract into ITEST (App. Support Mat. & Trg)	0%	Thu 3/19/09	Thu 3/19/09
166	EDW	Testing Support (bug fixes & re-factoring)	0%	Fri 3/20/09	Thu 4/30/09
167	EDW	Report available to MIS	0%	Thu 4/30/09	Thu 4/30/09
168	EDW	Business verification/approval	0%	Fri 5/1/09	Thu 5/7/09
169	EDW	RUC Report Complete	0%	Thu 5/7/09	Thu 5/7/09
170	EDW	MMS Release 1 Complete	0%	Thu 5/7/09	Thu 5/7/09
171	**EDW**	**MMS Release 2**	**17%**	**Tue 7/22/08**	**Mon 9/13/10**
172	**EDW**	**MMS Phase 2 Replication**	**0%**	**Thu 5/28/09**	**Mon 9/13/10**
174	EDW	Receive MMS source system envronment ready from MMS	0%	Thu 5/28/09	Thu 5/28/09
175	EDW	business requirements approved	0%	Fri 5/29/09	Mon 6/8/09
176	EDW	Create/ install source system bundle in FAT	0%	Tue 6/9/09	Mon 6/22/09
177	EDW	Create/ install target system bundle in FAT	0%	Tue 6/23/09	Tue 7/7/09
178	EDW	Test replication in FAT	0%	Wed 7/8/09	Tue 7/21/09
179	EDW	Development Complete ready for iTEST - MMS Phase 2 Replication	0%	Wed 7/22/09	Tue 7/28/09
180	EDW	Deliver Migrated Phase 2 Replication to iTEST	0%	Tue 7/28/09	Tue 7/28/09
182	EDW	install source system replication	0%	Wed 7/29/09	Tue 8/4/09
183	EDW	install target system replication	0%	Wed 8/5/09	Tue 8/11/09
184	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Wed 8/12/09	Fri 9/11/09
185	EDW	Post MMS 5 (Patches 1..8) Testing Support (refactoring etc)	0%	Mon 9/14/09	Mon 9/13/10
186	EDW	MMS (Phase 2) replication complete	0%	Mon 9/13/10	Mon 9/13/10

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ID	Project Name	Task Name	% Complete	Start	Finish
187	**EDW**	**MMS NPRR102 Extracts (Normal-already have data available)**	**22%**	**Tue 7/22/08**	**Thu 8/13/09**
188	EDW	Receive MMS Source System Data replication available from MMS	0%	Thu 5/28/09	Thu 5/28/09
189	EDW	TPTF approval	100%	Tue 7/22/08	Mon 8/4/08
190	**EDW**	**Extracts Release 1 (9 Extracts)**	**56%**	**Tue 8/5/08**	**Tue 4/28/09**
191	EDW	Reporting requirements defined/approved	100%	Tue 8/5/08	Fri 9/12/08
192	EDW	Design & develop extract	100%	Mon 9/15/08	Fri 10/10/08
193	EDW	Test extracts & receive approval - DEV	100%	Mon 10/13/08	Tue 10/28/08
194	EDW	Migrate extracts into FAT	100%	Wed 10/29/08	Wed 10/29/08
195	EDW	Test extracts in FAT	100%	Thu 10/30/08	Thu 10/30/08
196	EDW	Development Complete ready for iTEST - MMS NPPRR012 Extracts Release 1	0%	Fri 2/20/09	Tue 2/24/09
197	EDW	Deliver Migrated Extracts Release 1 to iTEST	0%	Tue 2/24/09	Tue 2/24/09
199	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Wed 2/25/09	Tue 4/7/09
200	EDW	Extracts available to MIS	0%	Tue 4/7/09	Tue 4/7/09
201	EDW	Business verification/approval	0%	Wed 4/8/09	Tue 4/28/09
202	**EDW**	**Extracts Release 2 (3 Extracts)**	**63%**	**Mon 9/15/08**	**Wed 4/29/09**
203	EDW	Reporting requirements & support	100%	Mon 9/15/08	Wed 10/15/08
204	EDW	Design & develop extract	100%	Thu 10/16/08	Fri 11/14/08
205	EDW	Test extract & receive approval - DEV	100%	Mon 11/17/08	Mon 11/24/08
206	EDW	Migrate extract into FAT	100%	Tue 11/25/08	Wed 12/10/08
207	EDW	Test extract in FAT	100%	Thu 12/11/08	Wed 12/17/08
208	EDW	Development Complete ready for iTEST - MMS NPPRR012 Extracts Release 2	100%	Thu 12/18/08	Fri 12/19/08
209	EDW	Deliver Migrated Extracts Release 2 to iTEST	100%	Fri 12/19/08	Fri 12/19/08
211	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Thu 3/5/09	Wed 4/15/09
212	EDW	Extracts available to MIS	0%	Wed 4/15/09	Wed 4/15/09
213	EDW	Business verification/approval	0%	Thu 4/16/09	Wed 4/29/09
214	**EDW**	**Extracts Release 3A (5 Extracts)**	**43%**	**Thu 10/16/08**	**Wed 7/15/09**
215	EDW	Aggregation Calculations	90%	Thu 10/16/08	Mon 1/5/09
216	EDW	Reporting requirements & support	90%	Thu 10/16/08	Mon 1/5/09
217	EDW	Design & develop extract	0%	Tue 1/6/09	Fri 1/30/09
218	EDW	Test extract & receive approval - DEV	0%	Mon 2/2/09	Fri 2/13/09
219	EDW	Migrate extract into FAT	0%	Mon 2/16/09	Fri 2/20/09
220	EDW	Test extract in FAT	0%	Mon 2/23/09	Fri 3/6/09
221	EDW	Development Complete ready for iTEST - MMS NPPRR012 Extracts Release 3A	0%	Mon 3/9/09	Wed 3/11/09
222	EDW	Deliver Migrated Extracts Release 3 to iTEST	0%	Wed 3/11/09	Wed 3/11/09
224	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Tue 5/5/09	Tue 6/16/09

Wed 1/14/09

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ID	Project Name	Task Name	% Complete	Start	Finish
225	EDW	Extracts available to MIS	0%	Tue 6/16/09	Tue 6/16/09
226	EDW	Business verification/approval	0%	Wed 6/17/09	Wed 7/15/09
227	**EDW**	**Extracts Release 3B (5 Extracts)**	**0%**	**Tue 1/6/09**	**Wed 7/15/09**
228	EDW	Aggregation Calculations	0%	Tue 1/6/09	Mon 1/19/09
229	EDW	Reporting requirements & support	0%	Tue 1/6/09	Mon 1/19/09
230	EDW	Design & develop extract	0%	Tue 1/20/09	Tue 2/17/09
231	EDW	Test extract & receive approval - DEV	0%	Wed 2/18/09	Tue 3/3/09
232	EDW	Migrate extract into FAT	0%	Wed 3/4/09	Tue 3/10/09
233	EDW	Test extract in FAT	0%	Wed 3/11/09	Tue 3/24/09
234	EDW	Migrate extract into ITEST	0%	Wed 3/25/09	Fri 3/27/09
235	EDW	Development Complete ready for iTEST - MMS NPPRR012 Extracts Release 3B	0%	Fri 3/27/09	Fri 3/27/09
236	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Tue 5/5/09	Tue 6/16/09
237	EDW	Extracts available to MIS	0%	Tue 6/16/09	Tue 6/16/09
238	EDW	Business verification/approval	0%	Wed 6/17/09	Wed 7/15/09
239	**EDW**	**Extracts Release 4 (4 Extracts)**	**0%**	**Tue 1/20/09**	**Mon 6/1/09**
240	EDW	Aggregation Calculations	0%	Tue 1/20/09	Mon 2/2/09
241	EDW	Reporting requirements & support	0%	Tue 1/20/09	Mon 2/2/09
242	EDW	Design & develop extract	0%	Tue 2/3/09	Mon 2/16/09
243	EDW	Test extract & receive approval - DEV	0%	Tue 2/17/09	Wed 3/4/09
244	EDW	Migrate extract into FAT	0%	Thu 3/5/09	Mon 3/9/09
245	EDW	Test extract in FAT	0%	Tue 3/10/09	Thu 3/19/09
246	EDW	Development Complete ready for iTEST - MMS NPPRR012 Extracts Release 4	0%	Fri 3/20/09	Tue 3/24/09
247	EDW	Deliver Migrated Extracts Release 4 to iTEST	0%	Tue 3/24/09	Tue 3/24/09
249	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Mon 4/6/09	Fri 5/15/09
250	EDW	Extracts available to MIS	0%	Fri 5/15/09	Fri 5/15/09
251	EDW	Business verification/approval	0%	Mon 5/18/09	Mon 6/1/09
252	**EDW**	**Extracts Release 5 (6 Extracts)**	**0%**	**Thu 2/19/09**	**Wed 8/5/09**
254	EDW	Receive MMS4 P7: Installation in DEV & Smoke Test Complete from MMS	0%	Thu 2/19/09	Thu 2/19/09
255	EDW	Aggregation Calculations	0%	Fri 2/20/09	Thu 3/12/09
256	EDW	Reporting requirements & support	0%	Fri 2/20/09	Thu 3/12/09
257	EDW	Design & develop extract	0%	Fri 3/13/09	Mon 3/30/09
258	EDW	Test extract & receive approval - DEV	0%	Tue 3/31/09	Wed 4/15/09
259	EDW	Migrate extract into FAT	0%	Thu 4/16/09	Mon 4/20/09
260	EDW	Test extract in FAT	0%	Tue 4/21/09	Wed 5/6/09
261	EDW	Development Complete ready for iTEST - MMS NPPRR012 Extracts Release 5	0%	Thu 5/7/09	Mon 5/11/09

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ID	Project Name	Task Name	% Complete	Start	Finish
262	EDW	Deliver Migrated Extracts Release 5 to iTEST	0%	Mon 5/11/09	Mon 5/11/09
264	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Fri 5/29/09	Tue 6/30/09
265	EDW	MMS Patch or enhancement is needed for completion (if needed)	0%	Tue 6/30/09	Tue 6/30/09
266	EDW	Re-testing Support	0%	Wed 7/1/09	Wed 7/15/09
267	EDW	Extracts available to MIS	0%	Wed 7/15/09	Wed 7/15/09
268	EDW	Business verification/approval	0%	Thu 7/16/09	Wed 8/5/09
269	**EDW**	**Extracts Release 6 (4 Extracts)**	**0%**	**Fri 3/13/09**	**Thu 8/6/09**
270	EDW	Aggregation Calculations	0%	Fri 3/13/09	Thu 4/9/09
271	EDW	Reporting requirements & support	0%	Fri 3/13/09	Thu 4/9/09
272	EDW	Design & develop extract	0%	Fri 4/10/09	Tue 4/28/09
273	EDW	Test extract & receive approval - DEV	0%	Wed 4/29/09	Fri 5/8/09
274	EDW	Migrate extract into FAT	0%	Mon 5/11/09	Fri 5/15/09
275	EDW	Test extract in FAT	0%	Mon 5/18/09	Wed 6/3/09
276	EDW	Development Complete ready for iTEST - MMS NPPRR012 Extracts Release 6	0%	Thu 6/4/09	Mon 6/8/09
277	EDW	Deliver Migrated Extracts Release 6 to iTEST	0%	Mon 6/8/09	Mon 6/8/09
279	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Tue 6/9/09	Thu 7/9/09
280	EDW	MMS Patch or enhancement is needed for completion (if needed)	0%	Thu 7/9/09	Thu 7/9/09
281	EDW	Re-testing Support	0%	Fri 7/10/09	Thu 7/23/09
282	EDW	Extracts available to MIS	0%	Thu 7/23/09	Thu 7/23/09
283	EDW	Business verification/approval	0%	Fri 7/24/09	Thu 8/6/09
284	**EDW**	**Extracts Release 7 (12 Extracts)**	**0%**	**Tue 2/3/09**	**Thu 8/13/09**
285	EDW	Aggregation Calculations	0%	Tue 2/3/09	Mon 2/16/09
286	EDW	Reporting requirements & support	0%	Tue 2/3/09	Mon 2/16/09
287	EDW	Design & develop extract	0%	Tue 2/17/09	Mon 3/16/09
288	EDW	Test extract & receive approval - DEV	0%	Tue 3/17/09	Mon 3/30/09
289	EDW	Migrate extract into FAT	0%	Tue 3/31/09	Wed 4/1/09
290	EDW	Test extract in FAT	0%	Thu 4/2/09	Wed 4/15/09
291	EDW	Development Complete ready for iTEST - MMS NPPRR012 Extracts Release 7	0%	Thu 4/16/09	Mon 4/20/09
292	EDW	Deliver Migrated Extracts Release 7 to iTEST	0%	Mon 4/20/09	Mon 4/20/09
294	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Fri 6/5/09	Mon 7/20/09
295	EDW	MMS Patch or enhancement is needed for completion (if needed)	0%	Mon 7/20/09	Mon 7/20/09
296	EDW	Re-testing Support	0%	Mon 7/20/09	Mon 7/20/09
297	EDW	Extracts available to MIS	0%	Thu 7/23/09	Thu 7/23/09
298	EDW	Business verification/approval	0%	Fri 7/24/09	Thu 8/13/09
299	EDW	MMS-NPRR102 Release Complete	0%	Thu 8/13/09	Thu 8/13/09

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ID	Project Name	Task Name	% Complete	Start	Finish
300	EDW	MMS Release 2 Complete	0%	Thu 8/13/09	Thu 8/13/09
301	EDW	EDW-MMS Complete	0%	Thu 8/13/09	Thu 8/13/09
302	**EDW**	**EDW-OS**	**14%**	**Thu 10/2/08**	**Fri 5/8/09**
303	**EDW**	**Release 1**	**14%**	**Thu 10/2/08**	**Fri 5/8/09**
305	EDW	Receive OS deployed in EDS (expected 7/15/08) from OS	100%	Thu 11/13/08	Thu 11/13/08
306	**EDW**	**OS replication: OS EDS to EDW ITEST**	**46%**	**Thu 10/2/08**	**Wed 2/4/09**
307	EDW	OS Source environment ready	100%	Mon 11/17/08	Mon 11/17/08
308	EDW	Business Requirements Approved	100%	Thu 10/2/08	Thu 10/2/08
309	EDW	Source System Replication Installed	100%	Mon 11/17/08	Wed 11/19/08
310	EDW	target system replication installed	90%	Mon 12/1/08	Mon 12/15/08
311	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Thu 1/15/09	Wed 1/28/09
312	EDW	Business Approval	0%	Thu 1/29/09	Wed 2/4/09
313	EDW	Deliver OS replication complete to iTEST	0%	Wed 2/4/09	Wed 2/4/09
315	**EDW**	**Outage Scheduler Reports**	**0%**	**Wed 2/4/09**	**Fri 5/8/09**
316	EDW	OS Source system replication complete	0%	Wed 2/4/09	Wed 2/4/09
317	EDW	Pre-Migration Testing	0%	Wed 2/4/09	Wed 2/4/09
318	EDW	Development Complete ready for iTEST - OS Reports	0%	Thu 2/5/09	Thu 3/5/09
319	EDW	Deliver Migrated Extracts (Outage Scheduler Reports) to iTEST	0%	Thu 3/5/09	Thu 3/5/09
321	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Fri 3/6/09	Thu 4/2/09
322	EDW	OS patch/enhancement needed for completion (if needed)	0%	Fri 4/3/09	Thu 4/16/09
323	EDW	Re-Testing Support	0%	Fri 4/17/09	Fri 5/1/09
324	EDW	Reports available to MIS	0%	Fri 5/1/09	Fri 5/1/09
325	EDW	Business verification/approval	0%	Mon 5/4/09	Fri 5/8/09
326	EDW	Outage Scheduler Reports Complete	0%	Fri 5/8/09	Fri 5/8/09
327	EDW	OS Release 1 Complete	0%	Fri 5/8/09	Fri 5/8/09
328	EDW	EDW-OS Complete	0%	Fri 5/8/09	Fri 5/8/09
329	**EDW**	**EDW-EMS**	**10%**	**Mon 12/15/08**	**Mon 9/14/09**
330	**EDW**	**Release 1**	**10%**	**Mon 12/15/08**	**Mon 9/14/09**
331	**EDW**	**EMS Ph 3 replication: EMS EDS to EDW ITEST**	**0%**	**Mon 12/15/08**	**Fri 5/1/09**
333	EDW	Receive Phase 3 Source Environment from EMS	100%	Mon 12/15/08	Mon 12/15/08
334	EDW	EMS Phase 3 Source environment ready	1%	Tue 12/16/08	Fri 2/27/09
335	EDW	business requirements approved	0%	Mon 3/2/09	Mon 3/2/09
336	EDW	source system replication installed	0%	Tue 3/3/09	Mon 3/16/09
337	EDW	target system replication installed	0%	Thu 4/9/09	Wed 4/22/09
338	EDW	Replication Testing Support (bug fix, refactoring, etc.)	0%	Thu 4/23/09	Fri 5/1/09

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ID	Project Name	Task Name	% Complete	Start	Finish
339	EDW	Deliver EMS replication complete to iTEST	0%	Fri 5/1/09	Fri 5/1/09
341	**EDW**	**Additional EMS Reports**	**35%**	**Mon 12/15/08**	**Fri 7/10/09**
342	EDW	Receive EMS Source (Dynamically Adjusted Transmission Elements, RTCA, Capacity Factors) System data from EM	100%	Mon 12/15/08	Mon 12/15/08
343	EDW	Reporting requirements approved and/or updated	100%	Tue 12/16/08	Mon 3/2/09
344	EDW	Design & Develop (tech spec, report, test cases)	0%	Tue 3/3/09	Wed 3/11/09
345	EDW	Test & receive approval of report - DEV	0%	Thu 3/12/09	Wed 3/25/09
346	EDW	Migrate report into FAT	0%	Thu 3/26/09	Fri 3/27/09
347	EDW	Test & receive approval of report in FAT	0%	Mon 3/30/09	Wed 4/8/09
348	EDW	Development Complete ready for iTEST - Additional EMS Reports	0%	Thu 4/23/09	Mon 4/27/09
349	EDW	Deliver Additional EMS Migrated Reports to iTEST	0%	Mon 4/27/09	Mon 4/27/09
351	EDW	Testing Support	0%	Tue 4/28/09	Tue 5/26/09
352	EDW	EMS patch/enhancement needed for completion (if needed)	0%	Wed 5/27/09	Tue 6/9/09
353	EDW	Re-Testing Support	0%	Wed 6/10/09	Thu 6/18/09
354	EDW	Reports available to MIS	0%	Thu 6/18/09	Thu 6/18/09
355	EDW	Business approval	0%	Fri 6/19/09	Fri 7/10/09
356	**EDW**	**Voltage Residuals Vs. Telemetry for Critical Busses (NP3-582-ER) Report**	**0%**	**Tue 1/6/09**	**Mon 3/30/09**
358	EDW	Receive Interface 7 Release from EMS	0%	Tue 1/6/09	Tue 1/6/09
359	EDW	Voltage Residual Rpt Requirements Updated	0%	Wed 1/14/09	Tue 1/27/09
360	EDW	Voltage Residual Rpt Pre Migration Testing	0%	Wed 1/28/09	Tue 2/10/09
361	EDW	Development Complete ready for iTEST - Voltage Residual Report	0%	Wed 2/11/09	Fri 2/13/09
362	EDW	Deliver Voltage Residual Migrated Report to iTEST	0%	Fri 2/13/09	Fri 2/13/09
364	EDW	Voltage Residual RptTesting Report	0%	Mon 2/16/09	Mon 3/16/09
365	EDW	Voltage Residual Rpt Reports Availible to MIS	0%	Mon 3/16/09	Mon 3/16/09
366	EDW	Voltage Residual Rpt Buisiness Approval	0%	Tue 3/17/09	Mon 3/30/09
367	**EDW**	**NP6-654-ER Total Regulation Report**	**0%**	**Mon 1/5/09**	**Tue 3/17/09**
369	EDW	Receive Source System Data - EMS corrected data from EMS	0%	Mon 1/5/09	Mon 1/5/09
370	EDW	NP6-654-ER Report Refactor	0%	Thu 1/15/09	Fri 1/23/09
371	EDW	Development Complete ready for iTEST - NP6-654-ER Total Regulation Report	0%	Mon 1/26/09	Tue 1/27/09
372	EDW	Deliver NP6-654-ER Total Regulation Report to iTEST	0%	Tue 1/27/09	Tue 1/27/09
374	EDW	Testing Support (defect fixes, refactoring, etc.)	0%	Wed 1/28/09	Tue 3/3/09
375	EDW	Report available to MIS	0%	Tue 3/3/09	Tue 3/3/09
376	EDW	Business approval	0%	Wed 3/4/09	Tue 3/17/09
377	EDW	Total Regulation Report Complete	0%	Tue 3/17/09	Tue 3/17/09
378	EDW	EMS Report Complete	0%	Fri 7/10/09	Fri 7/10/09
379	**EDW**	**Other Section 8 Reports**	**0%**	**Mon 2/23/09**	**Mon 9/14/09**

Wed 1/14/09

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ID	Project Name	Task Name	% Complete	Start	Finish
381	EDW	Receive EMS Section 8 Source Data Available from EMS	0%	Mon 2/23/09	Mon 2/23/09
382	EDW	Reporting requirements approved and/or updated	0%	Tue 2/24/09	Mon 3/16/09
383	EDW	Create tech spec, develop & post report, & write test cases	0%	Tue 3/17/09	Mon 4/13/09
384	EDW	Test report - DEV	0%	Tue 4/14/09	Wed 4/29/09
385	EDW	Migrate report into FAT	0%	Thu 4/30/09	Wed 5/6/09
386	EDW	Test report & receive approval from Business in FAT	0%	Thu 5/7/09	Fri 5/8/09
387	EDW	Development Complete ready for iTEST - other Section 8 Reports	0%	Mon 5/11/09	Fri 5/15/09
388	EDW	Deliver Other Section 8 Migrated Reports to iTEST	0%	Fri 5/15/09	Fri 5/15/09
390	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Mon 5/18/09	Tue 7/14/09
391	EDW	EMS Patch/enhancement needed for completion (if needed)	0%	Wed 7/15/09	Tue 7/28/09
392	EDW	Re-Testing Support	0%	Wed 7/29/09	Fri 7/31/09
393	EDW	Reports available to MIS	0%	Fri 7/31/09	Fri 7/31/09
394	EDW	Business verification/approval	0%	Mon 8/3/09	Mon 9/14/09
395	EDW	Section 8 reports complete	0%	Mon 9/14/09	Mon 9/14/09
396	EDW	EMS Release 1 Complete	0%	Mon 9/14/09	Mon 9/14/09
397	EDW	EDW-EMS Complete	0%	Mon 9/14/09	Mon 9/14/09
398	**EDW**	**EDW-CMM**	**0%**	**Fri 1/9/09**	**Fri 5/15/09**
399	**EDW**	**CMM Release 1**	**0%**	**Fri 1/9/09**	**Fri 5/15/09**
401	EDW	Receive CMM deployed in iTest from COMS	0%	Fri 1/9/09	Fri 1/9/09
402	**EDW**	**CMM replication: CMM EDS to EDW ITEST**	**0%**	**Fri 1/9/09**	**Fri 5/15/09**
403	EDW	Source environment ready	0%	Fri 1/9/09	Fri 1/9/09
404	EDW	source system replication installed	0%	Thu 3/12/09	Wed 3/25/09
405	EDW	target system replication installed	0%	Thu 3/26/09	Wed 4/8/09
406	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Thu 4/9/09	Fri 5/8/09
407	EDW	Business Approval	0%	Mon 5/11/09	Fri 5/15/09
408	EDW	CMM replication complete	0%	Fri 5/15/09	Fri 5/15/09
409	EDW	Deliver CMM Release 1 Complete to iTEST	0%	Fri 5/15/09	Fri 5/15/09
411	EDW	EDW CMM Complete	0%	Fri 5/15/09	Fri 5/15/09
412	**EDW**	**EDW-COMS**	**54%**	**Mon 6/2/08**	**Fri 5/8/09**
413	**EDW**	**COMS Release 1**	**54%**	**Mon 6/2/08**	**Fri 5/8/09**
414	**EDW**	**COMS Extracts -Non Shadow Settlement**	**59%**	**Mon 6/2/08**	**Fri 5/8/09**
415	EDW	COMS extracts data available	100%	Mon 6/2/08	Mon 6/2/08
416	EDW	Review Business Requirements	100%	Wed 7/9/08	Wed 8/6/08
417	EDW	Design & Develop extracts	100%	Thu 8/7/08	Mon 9/29/08
418	EDW	Unit test	100%	Tue 9/30/08	Wed 10/1/08

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ID	Project Name	Task Name	% Complete	Start	Finish
419	EDW	Migrate extract into ITEST	100%	Thu 10/2/08	Mon 11/3/08
420	EDW	Deliver Migrated COMS Extract to iTEST	100%	Mon 11/3/08	Mon 11/3/08
422	EDW	Testing Support (bug fix, refactoring, etc.)	42%	Thu 10/2/08	Fri 5/1/09
423	EDW	Re-Testing Support	0%	Fri 4/17/09	Fri 5/1/09
424	EDW	Extracts available to MIS	0%	Fri 5/1/09	Fri 5/1/09
425	EDW	Business verification/approval (of re-testing of Shadow & Non-Shadow Settlements Extracts)	0%	Mon 5/4/09	Fri 5/8/09
426	EDW	COMS Extracts Complete	0%	Fri 5/8/09	Fri 5/8/09
427	**EDW**	**COMS Web Services**	**48%**	**Mon 6/2/08**	**Fri 5/8/09**
428	EDW	COMS Web Services source data available	100%	Mon 6/2/08	Mon 6/2/08
429	EDW	Extracts requirements approved	100%	Mon 6/2/08	Tue 6/3/08
430	EDW	Design & Develop extracts	100%	Thu 7/31/08	Fri 9/12/08
431	EDW	Unit test	100%	Mon 9/15/08	Fri 9/19/08
432	EDW	Migrate extract into ITEST	100%	Tue 9/30/08	Wed 10/1/08
433	EDW	Deliver Migrated COMS Web Services Extract to iTEST	100%	Wed 10/1/08	Wed 10/1/08
435	EDW	Testing Support (bug fix, refactoring, etc.)	42%	Thu 10/2/08	Fri 5/1/09
436	EDW	COMS patch/enhancement needed for completion (if needed)	0%	Mon 4/20/09	Fri 5/1/09
437	EDW	Re-Testing Support	0%	Mon 4/20/09	Fri 5/1/09
438	EDW	Extracts available to MIS	0%	Fri 5/1/09	Fri 5/1/09
439	EDW	Business verification/approval	0%	Mon 5/4/09	Fri 5/8/09
440	EDW	Web Services Complete	0%	Fri 5/8/09	Fri 5/8/09
441	EDW	COMS Release 1 Complete	0%	Fri 5/8/09	Fri 5/8/09
442	**EDW**	**EDW-Siebel**	**100%**	**Mon 6/2/08**	**Wed 10/22/08**
443	**EDW**	**Siebel Release 1**	**100%**	**Mon 6/2/08**	**Wed 10/22/08**
444	**EDW**	**Siebel replication Phase 4: Siebel ITEST to EDW ITEST**	**100%**	**Mon 6/2/08**	**Wed 10/22/08**
445	EDW	Siebel Source environment ready	100%	Mon 6/2/08	Mon 6/2/08
446	EDW	source system replication installed	100%	Mon 6/2/08	Fri 6/13/08
447	EDW	target system replication installed	100%	Mon 6/16/08	Fri 6/27/08
448	EDW	Testing Support (bug fix, refactoring, etc.)	100%	Mon 6/30/08	Thu 10/16/08
449	EDW	Business Approval	100%	Fri 10/17/08	Wed 10/22/08
450	EDW	Siebel replication Ph 4 complete	100%	Wed 10/22/08	Wed 10/22/08
451	EDW	Deliver Siebel Release 1 Complete to iTEST	100%	Wed 10/22/08	Wed 10/22/08
453	**EDW**	**EDW-Lodestar**	**100%**	**Mon 6/2/08**	**Wed 10/22/08**
454	**EDW**	**Lodstar replication: Lodestar PR00LOD to PR00ISM**	**100%**	**Mon 6/2/08**	**Thu 10/9/08**
455	EDW	ITEST Zonal L* schema built with 4.7	100%	Mon 6/2/08	Wed 6/18/08
456	EDW	COMS Zonal L* Source environment ready	100%	Wed 8/27/08	Wed 8/27/08

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ID	Project Name	Task Name	% Complete	Start	Finish
457	EDW	source system replication installed	100%	Thu 8/28/08	Thu 9/25/08
458	EDW	target system replication installed	100%	Fri 9/26/08	Thu 10/2/08
459	EDW	Production Verification	100%	Fri 10/3/08	Thu 10/9/08
460	EDW	Zonal Lodestar replication complete	100%	Thu 10/9/08	Thu 10/9/08
461	**EDW**	**NDLSTAR replication: Lodestar PR00LOD to PR00ISM**	**100%**	**Tue 9/30/08**	**Wed 10/22/08**
462	EDW	COMS Nodal L* Source environment ready	100%	Tue 9/30/08	Tue 9/30/08
463	EDW	source system replication installed	100%	Fri 10/10/08	Wed 10/15/08
464	EDW	target system replication installed	100%	Thu 10/16/08	Mon 10/20/08
465	EDW	Production Verification	100%	Tue 10/21/08	Wed 10/22/08
466	EDW	NODAL Lodestar replication complete	100%	Wed 10/22/08	Wed 10/22/08
467	EDW	EDW-Lodestar Complete	100%	Wed 10/22/08	Wed 10/22/08
468	**EDW**	**EDW-EIP**	**0%**	**Fri 1/9/09**	**Thu 5/14/09**
469	**EDW**	**Notices Database Replication**	**0%**	**Fri 1/9/09**	**Thu 5/14/09**
470	EDW	Receive Source system environment ready from EIP	0%	Fri 1/9/09	Fri 1/9/09
471	EDW	business requirements approved	0%	Fri 1/16/09	Thu 2/5/09
472	EDW	Develop & unit test replication bundle in DEV	0%	Fri 2/6/09	Mon 3/9/09
473	EDW	Migrate to FAT	0%	Tue 3/10/09	Thu 3/12/09
474	EDW	Test replication in FAT	0%	Fri 3/13/09	Thu 3/19/09
475	EDW	Development Complete ready for iTEST - Notices Database Replication	0%	Fri 3/20/09	Thu 3/26/09
476	EDW	Deliver Migrated Notices Database Replication to iTEST	0%	Thu 3/26/09	Thu 3/26/09
478	EDW	Testing Support (bug fix, refactoring, etc.)	0%	Fri 3/27/09	Thu 5/7/09
479	EDW	Business verification/approval	0%	Fri 5/8/09	Thu 5/14/09
480	EDW	Notices Database replication complete	0%	Thu 5/14/09	Thu 5/14/09
481	EDW	EDW-EIP Complete	0%	Thu 5/14/09	Thu 5/14/09
482	**EDW**	**MID/MIR Initiative**	**72%**	**Mon 6/2/08**	**Fri 3/27/09**
483	**EDW**	**MID/MIR (Issue fixes) - Release 1**	**72%**	**Mon 6/2/08**	**Fri 3/27/09**
484	EDW	Development & Unit test	100%	Mon 6/2/08	Fri 10/24/08
485	EDW	Integration test	100%	Mon 10/27/08	Wed 12/17/08
486	EDW	Migrate to ITEST	100%	Thu 12/18/08	Fri 12/19/08
487	EDW	Deliver Migrated MID/MIR (Issue fixes) - Release 1 to iTEST	100%	Fri 12/19/08	Fri 12/19/08
489	EDW	Testing Support (bug fixes & re-factoring)	8%	Mon 1/5/09	Fri 3/13/09
490	EDW	Business Approval	0%	Mon 3/16/09	Fri 3/27/09
491	EDW	MID/MIR Release 1 Complete	0%	Fri 3/27/09	Fri 3/27/09
492	EDW	MID/MIR Initiative Complete	0%	Fri 3/27/09	Fri 3/27/09
493	**EDW**	**EDW Release Support**	**30%**	**Tue 8/5/08**	**Mon 8/31/09**

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ID	Project Name	Task Name	% Complete	Start	Finish
494	EDW	Replication Support	40%	Tue 8/5/08	Tue 8/11/09
495	EDW	Reports/Extracts Support	18%	Tue 11/4/08	Mon 8/31/09
496	**EDW**	**Security Integration**	**0%**	**Mon 5/4/09**	**Mon 6/15/09**
497	EDW	APEX	0%	Mon 5/4/09	Mon 6/15/09
498	EDW	Cognos	0%	Mon 5/4/09	Mon 6/15/09
499	EDW	App Security	0%	Mon 5/4/09	Mon 6/15/09
500	EDW	EDW Project End	0%	Mon 9/13/10	Mon 9/13/10
9	**Nodal IPS**	**MIS - Market Information System**	**68%**	**Mon 6/2/08**	**Wed 10/14/09**
1	MIS	MIS Replan Start	100%	Mon 6/2/08	Mon 6/2/08
2	MIS	MIS Build 6 Complete	100%	Mon 6/2/08	Mon 6/2/08
3	**MIS**	**MIS Build 7**	**100%**	**Mon 6/2/08**	**Wed 10/22/08**
4	MIS	MIS 7 Build Start	100%	Mon 6/2/08	Mon 6/2/08
5	**MIS**	**Finalize Requirements For Build 7**	**100%**	**Mon 6/2/08**	**Thu 8/28/08**
6	**MIS**	**CDR**	**100%**	**Mon 6/2/08**	**Fri 6/20/08**
7	MIS	CDR000 Available	100%	Mon 6/2/08	Mon 6/2/08
9	MIS	Receive 3B Development from CDR	100%	Mon 6/2/08	Mon 6/2/08
10	MIS	Annual Competitive Constraints	100%	Mon 6/16/08	Fri 6/20/08
11	MIS	Monthly Competitive Constraints	100%	Mon 6/2/08	Fri 6/6/08
12	MIS	Suspended Competitive Constraints	100%	Mon 6/2/08	Fri 6/6/08
13	MIS	Temperature Adjusted Dynamic Ratings	100%	Mon 6/2/08	Fri 6/6/08
14	MIS	Peaker Net Margin & System-Wide Offer Cap	100%	Mon 6/2/08	Fri 6/6/08
15	MIS	Dynamic Rating Deviation Data	100%	Mon 6/2/08	Fri 6/6/08
16	MIS	Topology Consistency	100%	Mon 6/2/08	Fri 6/6/08
17	MIS	Transformer Flows, Voltages & Tap Position	100%	Mon 6/2/08	Fri 6/6/08
18	MIS	LMPs by Resource Node	100%	Mon 6/2/08	Fri 6/6/08
19	MIS	Settlement Point Prices at Hubs & Load Zones	100%	Mon 6/2/08	Fri 6/6/08
20	**MIS**	**MIS**	**100%**	**Mon 6/2/08**	**Thu 8/28/08**
21	MIS	MIS Header Links (ercot.com, TML, Contact)	100%	Mon 6/2/08	Fri 6/6/08
24	MIS	Receive Reports & Extract from EDW	100%	Mon 6/2/08	Mon 6/2/08
25	MIS	All State Estimator Reports & Extracts Page	100%	Fri 8/22/08	Thu 8/28/08
26	MIS	Active Public Links (to ercot.com) throughout MIS	100%	Mon 6/2/08	Fri 6/6/08
27	MIS	Groups & Rules Landing page (with active links)	100%	Mon 6/2/08	Fri 6/6/08
28	MIS	Reports Landing Page (Alpha list of all Reports)	100%	Mon 6/2/08	Fri 6/6/08
29	MIS	Notification Portlet	100%	Mon 6/2/08	Fri 6/6/08
30	**MIS**	**EDW**	**100%**	**Mon 6/2/08**	**Thu 6/19/08**

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ID	Project Name	Task Name	% Complete	Start	Finish
31	MIS	EDW DATA 31 available	100%	Mon 6/2/08	Mon 6/2/08
32	MIS	ICCP Link Availability Statistics Report	100%	Fri 6/13/08	Thu 6/19/08
33	MIS	Monthly Market Participant Real Time Availability Statistics Report	100%	Fri 6/13/08	Thu 6/19/08
34	**MIS**	**Development**	**100%**	**Wed 8/20/08**	**Wed 9/17/08**
35	MIS	Develop Build 7 Specific Items	100%	Wed 8/20/08	Wed 9/17/08
36	MIS	Create Release Notes For Build 7	100%	Wed 8/20/08	Thu 8/21/08
37	MIS	Unit Test Finished Build 7	100%	Wed 8/20/08	Thu 8/21/08
38	MIS	Fix Identified Bugs From Unit Testing	100%	Wed 8/20/08	Thu 8/21/08
39	MIS	Create Unit Test Log	100%	Wed 8/20/08	Thu 8/21/08
40	MIS	Update Properties & Folder IDs for ITest	100%	Wed 8/20/08	Thu 8/21/08
41	MIS	Create MIS Build 7 Package & Load Into CVS	100%	Wed 8/20/08	Thu 8/21/08
42	MIS	Create PPM Deployment Package	100%	Wed 8/20/08	Thu 8/21/08
43	MIS	Get Business Signoff For Build 7	100%	Wed 8/20/08	Thu 8/21/08
44	MIS	Get Testing Permission To Enter ITest	100%	Wed 8/20/08	Thu 8/21/08
45	MIS	Update Testing Scope / Test Scripts For Build 7	100%	Wed 8/20/08	Thu 8/21/08
46	**MIS**	**ITest**	**100%**	**Wed 8/20/08**	**Wed 8/27/08**
47	MIS	Deploy Build to ITest via PPM Tool	100%	Wed 8/20/08	Thu 8/21/08
48	MIS	ITest Testing For Build	100%	Wed 8/20/08	Wed 8/27/08
49	MIS	Review Bugs Identified In ITest	100%	Wed 8/20/08	Thu 8/21/08
50	MIS	Fix ITest Identified Bugs	100%	Wed 8/20/08	Fri 8/22/08
51	MIS	Create New Build With Bug Fixes & Load into CVS	100%	Wed 8/20/08	Thu 8/21/08
52	MIS	Update Release Notes & Test Scripts For Build 7.1	100%	Wed 8/20/08	Thu 8/21/08
53	MIS	Deploy Build 7.1 to ITest	100%	Wed 8/20/08	Thu 8/21/08
54	MIS	ITest Testing for Build 7.1	100%	Wed 8/20/08	Thu 8/21/08
55	MIS	Meet ITest Exit Criteria	100%	Wed 8/20/08	Thu 8/21/08
56	**MIS**	**EDS - Active**	**100%**	**Tue 10/14/08**	**Wed 10/22/08**
57	MIS	Update Properties & Folder IDs for EDS - Active	100%	Tue 10/14/08	Tue 10/14/08
58	MIS	Create MIS Build 7.1 Package For EDS - Active & Load into CVS	100%	Wed 10/15/08	Wed 10/15/08
59	MIS	Deploy MIS Build 7.1 To EDS - Active	100%	Thu 10/16/08	Thu 10/16/08
60	MIS	Smoke Test Build 7.1 in EDS - Active	100%	Fri 10/17/08	Fri 10/17/08
61	MIS	Fix Bugs Identified in EDS - Active	100%	Mon 10/20/08	Mon 10/20/08
62	MIS	Create Build 7.2	100%	Tue 10/21/08	Tue 10/21/08
63	MIS	Deploy Build 7.2 in EDS - Austin	100%	Wed 10/22/08	Wed 10/22/08
64	**MIS**	**EDS - Taylor**	**100%**	**Wed 8/20/08**	**Thu 8/21/08**
65	MIS	Update Properties & Folder IDs for EDS - Taylor	100%	Wed 8/20/08	Thu 8/21/08

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ID	Project Name	Task Name	% Complete	Start	Finish
66	MIS	Deploy MIS Build 7.2 To EDS - Taylor	100%	Wed 8/20/08	Thu 8/21/08
67	MIS	MIS Build 7 Complete	100%	Fri 8/22/08	Fri 8/22/08
68	**MIS**	**MIS Build 8**	**100%**	**Wed 6/4/08**	**Wed 9/24/08**
70	MIS	MIS Build 8 Start	100%	Wed 6/4/08	Wed 6/4/08
71	**MIS**	**Development**	**100%**	**Wed 8/20/08**	**Wed 9/24/08**
72	MIS	Develop Build 8 Specific Items	100%	Wed 8/20/08	Tue 9/16/08
73	MIS	Create Release Notes For Build 8	100%	Wed 9/17/08	Wed 9/17/08
74	MIS	Unit Test Finished Build 8	100%	Wed 9/17/08	Wed 9/17/08
75	MIS	Fix Identified Bugs From Unit Testing	100%	Thu 9/18/08	Thu 9/18/08
76	MIS	Create Unit Test Log	100%	Fri 9/19/08	Fri 9/19/08
77	MIS	Update Properties & Folder IDs for ITest	100%	Fri 9/19/08	Fri 9/19/08
78	MIS	Create MIS Build 8 Package & Load Into CVS	100%	Fri 9/19/08	Fri 9/19/08
79	MIS	Deliver PPM Deployment Package to MPIM	100%	Mon 9/22/08	Mon 9/22/08
81	MIS	Get Business Signoff For Build 8	100%	Mon 9/22/08	Mon 9/22/08
82	MIS	Get Testing Permission To Enter ITest	100%	Tue 9/23/08	Tue 9/23/08
83	MIS	Update Testing Scope / Test Scripts For Build 8	100%	Wed 9/24/08	Wed 9/24/08
84	**MIS**	**ITest**	**100%**	**Fri 8/22/08**	**Fri 9/12/08**
85	MIS	Deliver Deployed Build to ITest via PPM Tool	100%	Fri 8/22/08	Fri 8/22/08
87	MIS	ITest Testing For Build	100%	Tue 8/26/08	Tue 9/2/08
88	MIS	Review Bugs Identified In ITest	100%	Wed 9/3/08	Wed 9/3/08
89	MIS	Fix ITest Identified Bugs	100%	Thu 9/4/08	Fri 9/5/08
90	MIS	Create New Build With Bug Fixes & Load into CVS	100%	Mon 9/8/08	Mon 9/8/08
91	MIS	Update Release Notes & Test Scripts For Build 8.1	100%	Tue 9/9/08	Tue 9/9/08
92	MIS	Deploy Build 8.1 to ITest	100%	Wed 9/10/08	Wed 9/10/08
93	MIS	ITest Testing for Build 8.1	100%	Thu 9/11/08	Thu 9/11/08
94	MIS	Meet ITest Exit Criteria	100%	Fri 9/12/08	Fri 9/12/08
95	MIS	MIS Build 8 Complete	100%	Wed 9/24/08	Wed 9/24/08
96	**MIS**	**MIS Build 9**	**100%**	**Mon 8/25/08**	**Fri 11/14/08**
97	MIS	MIS Build 9 Start	100%	Mon 8/25/08	Mon 8/25/08
98	**MIS**	**Finalize Requirements For Build 9**	**100%**	**Mon 8/25/08**	**Fri 8/29/08**
99	MIS	COMMS Reports	100%	Mon 8/25/08	Fri 8/29/08
100	**MIS**	**Development**	**100%**	**Mon 9/1/08**	**Wed 11/5/08**
101	MIS	Develop Build 9 Specific Items	100%	Mon 9/1/08	Tue 10/14/08
102	MIS	Unit Test Finished Build 9	100%	Tue 10/21/08	Wed 10/22/08
103	MIS	Fix Identified Bugs From Unit Testing	100%	Thu 10/23/08	Thu 10/23/08

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ID	Project Name	Task Name	% Complete	Start	Finish
104	**MIS**	**Close-out Dev & Prepare for iTest**	**100%**	**Fri 10/17/08**	**Wed 11/5/08**
105	MIS	Create Release Notes For Build 9	100%	Thu 10/23/08	Fri 10/24/08
106	MIS	Create Unit Test Log	100%	Thu 10/23/08	Fri 10/24/08
107	MIS	Update Properties & Folder IDs for ITest	100%	Fri 10/17/08	Mon 10/20/08
108	MIS	Create MIS Build 9 Package & Load Into CVS	100%	Fri 10/17/08	Mon 10/20/08
109	MIS	Create PPM Deployment Package	100%	Fri 10/17/08	Mon 10/20/08
110	MIS	Get Business Signoff For Build 9	100%	Tue 10/21/08	Tue 10/21/08
111	MIS	Get Testing Permission To Enter Itest	100%	Thu 10/23/08	Fri 10/24/08
112	MIS	Update Testing Scope / Test Scripts For Build 9	100%	Thu 10/30/08	Wed 11/5/08
113	**MIS**	**ITest**	**100%**	**Wed 11/5/08**	**Fri 11/14/08**
114	MIS	Deliver Deployed Build to ITest via PPM Tool	100%	Wed 11/5/08	Wed 11/5/08
116	MIS	ITest Testing For Build (see note)	100%	Thu 11/6/08	Fri 11/14/08
117	MIS	MIS Build 9 Complete	100%	Fri 11/14/08	Fri 11/14/08
119	**MIS**	**MIS Build 10**	**82%**	**Tue 10/28/08**	**Fri 2/6/09**
120	MIS	MIS Build 10 Start	100%	Mon 11/3/08	Mon 11/3/08
121	**MIS**	**Finalize Requirements For Build 10**	**100%**	**Tue 10/28/08**	**Fri 11/21/08**
122	MIS	Outage Scheduler Reports	100%	Mon 11/3/08	Fri 11/21/08
123	MIS	EMS Reports	100%	Mon 11/3/08	Fri 11/21/08
124	MIS	MMS Reports	100%	Mon 11/3/08	Fri 11/21/08
125	MIS	COMMS Reports	100%	Mon 11/3/08	Fri 11/21/08
127	MIS	Receive 3C Development Reports from CDR	100%	Tue 10/28/08	Tue 10/28/08
128	MIS	CDR Reports	100%	Mon 11/3/08	Fri 11/21/08
129	MIS	Other Reports	100%	Mon 11/3/08	Fri 11/21/08
130	**MIS**	**Development For Build 10**	**66%**	**Mon 11/24/08**	**Wed 1/21/09**
131	MIS	Develop Build 10 Specific Items	100%	Mon 11/24/08	Fri 1/9/09
132	MIS	Create View By Protocal Links & Update Content for Build 10	100%	Mon 1/12/09	Wed 1/14/09
133	MIS	Create Release Notes For Build 10	0%	Mon 1/12/09	Tue 1/13/09
134	MIS	Add Portal Components to Build 10	0%	Mon 1/12/09	Mon 1/12/09
135	MIS	Unit Test Finished Build 10	0%	Tue 1/13/09	Wed 1/14/09
136	MIS	Fix Identified Bugs From Unit Testing	0%	Thu 1/15/09	Thu 1/15/09
137	MIS	Create Unit Test Log	0%	Fri 1/16/09	Fri 1/16/09
138	MIS	Update Properties & Folder IDs for ITest	0%	Fri 1/16/09	Fri 1/16/09
139	MIS	Create MIS Build 10 Package & Load Into CVS	0%	Mon 1/19/09	Mon 1/19/09
140	MIS	Create PPM Deployment Package	0%	Tue 1/20/09	Tue 1/20/09
141	MIS	Get Business Signoff For Build 10	0%	Mon 1/19/09	Mon 1/19/09

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ID	Project Name	Task Name	% Complete	Start	Finish
142	MIS	Get Testing Permission To Enter ITest	0%	Tue 1/20/09	Tue 1/20/09
143	MIS	Update Testing Scope / Test Scripts For Build 10	0%	Wed 1/21/09	Wed 1/21/09
144	**MIS**	**Itest For Build 10**	**0%**	**Wed 1/21/09**	**Fri 2/6/09**
145	MIS	Deliver Deployed Build to ITest via PPM Tool	0%	Wed 1/21/09	Wed 1/21/09
147	MIS	ITest Testing For Build	0%	Thu 1/22/09	Wed 1/28/09
148	MIS	Review Bugs Identified In ITest	0%	Thu 1/29/09	Thu 1/29/09
149	MIS	Fix ITest Identified Bugs	0%	Fri 1/30/09	Mon 2/2/09
150	MIS	Create New Build With Bug Fixes & Load into CVS	0%	Tue 2/3/09	Tue 2/3/09
151	MIS	Update Release Notes & Test Scripts For Build 10.1	0%	Wed 2/4/09	Wed 2/4/09
152	MIS	Deploy Build 10.1 to ITest	0%	Thu 2/5/09	Thu 2/5/09
153	MIS	ITest Testing for Build 10.1	0%	Fri 2/6/09	Fri 2/6/09
154	MIS	Meet ITest Exit Criteria	0%	Fri 2/6/09	Fri 2/6/09
155	MIS	MIS Build 10 Complete	0%	Fri 2/6/09	Fri 2/6/09
156	**MIS**	**MIS Build 11**	**0%**	**Thu 1/15/09**	**Wed 10/14/09**
158	MIS	Receive Reports & Extracts for Build 11 from EDW	0%	Wed 10/14/09	Wed 10/14/09
159	MIS	MIS Build 11 Start	0%	Thu 1/15/09	Thu 1/15/09
160	**MIS**	**Finalize Requirements (Build 11)**	**0%**	**Fri 1/16/09**	**Thu 1/29/09**
161	MIS	Outage Scheduler Reports	0%	Fri 1/16/09	Thu 1/29/09
162	MIS	EMS Reports	0%	Fri 1/16/09	Thu 1/29/09
163	MIS	MMS Reports	0%	Fri 1/16/09	Thu 1/29/09
164	MIS	COMMS Reports	0%	Fri 1/16/09	Thu 1/29/09
165	MIS	Other Reports	0%	Fri 1/16/09	Thu 1/29/09
166	**MIS**	**Development (Build 11)**	**0%**	**Fri 1/30/09**	**Thu 3/26/09**
167	MIS	Develop Build 11 Specific Items	0%	Fri 1/30/09	Thu 3/12/09
168	MIS	CreateView By Protocal Links Links & Update Content for Build 11	0%	Fri 3/13/09	Fri 3/13/09
169	MIS	Create Release Notes For Build 11	0%	Fri 3/13/09	Fri 3/13/09
170	MIS	Unit Test Finished Build 11	0%	Fri 3/13/09	Fri 3/13/09
171	MIS	Fix Identified Bugs From Unit Testing	0%	Mon 3/16/09	Tue 3/17/09
172	MIS	Create Unit Test Log	0%	Wed 3/18/09	Wed 3/18/09
173	MIS	Update Properties & Folder IDs for ITest	0%	Wed 3/18/09	Wed 3/18/09
174	MIS	Create MIS Build 11 Package & Load Into CVS	0%	Thu 3/19/09	Thu 3/19/09
175	MIS	Create PPM Deployment Package	0%	Fri 3/20/09	Fri 3/20/09
176	MIS	Code drop & Smoke Test	0%	Mon 3/23/09	Wed 3/25/09
177	MIS	Get Business Signoff For Build 11	0%	Mon 3/23/09	Mon 3/23/09
178	MIS	Get Testing Permission To Enter ITest	0%	Thu 3/26/09	Thu 3/26/09

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ID	Project Name	Task Name	% Complete	Start	Finish
179	MIS	Update Testing Scope / Test Scripts For Build 11	0%	Tue 3/24/09	Tue 3/24/09
180	**MIS**	**Itest(Build 11)**	**0%**	**Thu 3/26/09**	**Tue 4/14/09**
181	MIS	Deliver Deployed Build to ITest via PPM Tool	0%	Thu 3/26/09	Thu 3/26/09
183	MIS	Integration Testing	0%	Fri 3/27/09	Thu 4/2/09
184	MIS	ITest Testing For Build	0%	Fri 3/27/09	Thu 4/2/09
185	MIS	Review Bugs Identified In ITest	0%	Fri 4/3/09	Fri 4/3/09
186	MIS	Fix ITest Identified Bugs	0%	Mon 4/6/09	Tue 4/7/09
187	MIS	Create New Build With Bug Fixes & Load into CVS	0%	Wed 4/8/09	Wed 4/8/09
188	MIS	Update Release Notes & Test Scripts For Build 11.1	0%	Thu 4/9/09	Thu 4/9/09
189	MIS	Deploy Build 11.1 to ITest	0%	Fri 4/10/09	Fri 4/10/09
190	MIS	ITest Testing for Build 11.1	0%	Mon 4/13/09	Mon 4/13/09
191	MIS	Meet ITest Exit Criteria	0%	Tue 4/14/09	Tue 4/14/09
192	MIS	MIS Build 11 Complete	0%	Tue 4/14/09	Tue 4/14/09
193	**MIS**	**MIS Build 12**	**0%**	**Mon 6/2/08**	**Mon 8/10/09**
194	MIS	Receive Reports & Extracts for MIS Build 11 from ???	0%	Mon 6/2/08	Mon 6/2/08
195	MIS	MIS Build 12 Start	0%	Tue 4/14/09	Tue 4/14/09
196	**MIS**	**Finalize Requirements (Build 12)**	**0%**	**Wed 4/15/09**	**Tue 4/28/09**
197	MIS	Outage Scheduler Reports	0%	Wed 4/15/09	Tue 4/28/09
198	MIS	EMS Reports	0%	Wed 4/15/09	Tue 4/28/09
199	MIS	MMS Reports	0%	Wed 4/15/09	Tue 4/28/09
200	MIS	COMMS Reports	0%	Wed 4/15/09	Tue 4/28/09
201	MIS	Other Reports	0%	Wed 4/15/09	Tue 4/28/09
202	**MIS**	**Development (Build 12)**	**0%**	**Wed 4/29/09**	**Wed 7/15/09**
203	MIS	Develop Build 12 Specific Items	0%	Wed 4/29/09	Wed 6/24/09
204	MIS	Create View By Protocal Links Links & Update Content for Build 12	0%	Thu 6/25/09	Thu 6/25/09
205	MIS	Create Release Notes For Build 12	0%	Thu 6/25/09	Thu 6/25/09
206	MIS	Unit Test Finished Build 12	0%	Fri 6/26/09	Fri 6/26/09
207	MIS	Fix Identified Bugs From Unit Testing	0%	Mon 6/29/09	Tue 6/30/09
208	MIS	Create Unit Test Log	0%	Wed 7/1/09	Wed 7/1/09
209	MIS	Update Properties & Folder IDs for ITest	0%	Thu 7/2/09	Thu 7/2/09
210	MIS	Create MIS Build 12 Package & Load Into CVS	0%	Mon 7/6/09	Mon 7/6/09
211	MIS	Create PPM Deployment Package	0%	Tue 7/7/09	Tue 7/7/09
212	MIS	Code drop & Smoke Test	0%	Wed 7/8/09	Fri 7/10/09
213	MIS	Get Business Signoff For Build 12	0%	Mon 7/13/09	Mon 7/13/09
214	MIS	Get Testing Permission To Enter ITest	0%	Tue 7/14/09	Tue 7/14/09

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ID	Project Name	Task Name	% Complete	Start	Finish
215	MIS	Update Testing Scope / Test Scripts For Build 12	0%	Wed 7/15/09	Wed 7/15/09
216	**MIS**	**Itest(Build 12)**	**0%**	**Wed 7/15/09**	**Mon 8/10/09**
217	MIS	Deliver Build 12 to ITest via PPM Tool	0%	Wed 7/15/09	Wed 7/15/09
219	MIS	Integration Testing	0%	Thu 7/16/09	Wed 7/22/09
220	MIS	ITest Testing For Build	0%	Thu 7/23/09	Wed 7/29/09
221	MIS	Review Bugs Identified In ITest	0%	Thu 7/30/09	Thu 7/30/09
222	MIS	Fix ITest Identified Bugs	0%	Fri 7/31/09	Mon 8/3/09
223	MIS	Create New Build With Bug Fixes & Load into CVS	0%	Tue 8/4/09	Tue 8/4/09
224	MIS	Update Release Notes & Test Scripts For Build 12.1	0%	Wed 8/5/09	Wed 8/5/09
225	MIS	Deploy Build 12.1 to ITest	0%	Thu 8/6/09	Thu 8/6/09
226	MIS	ITest Testing for Build 12.1	0%	Fri 8/7/09	Fri 8/7/09
227	MIS	Meet ITest Exit Criteria	0%	Mon 8/10/09	Mon 8/10/09
228	MIS	MIS Build 12 Complete	0%	Mon 8/10/09	Mon 8/10/09
229	**MIS**	**Portal Components**	**77%**	**Mon 8/25/08**	**Thu 4/9/09**
230	**MIS**	**Build 9 or Prior Portlet Components**	**100%**	**Mon 8/25/08**	**Wed 11/12/08**
231	**MIS**	**MyPage Customization**	**100%**	**Mon 8/25/08**	**Fri 9/26/08**
232	MIS	Subscribe Portlet To a Pane Construction	100%	Mon 8/25/08	Fri 8/29/08
233	MIS	Unsubscribe Portlet To a Pane Construction	100%	Tue 9/2/08	Fri 9/5/08
234	MIS	Change Order of Porlets within Pane Construction	100%	Mon 9/8/08	Fri 9/12/08
235	MIS	UI Customization	100%	Mon 9/15/08	Fri 9/26/08
236	**MIS**	**Search**	**100%**	**Mon 10/20/08**	**Wed 11/12/08**
237	MIS	Modify Search Page Based on UI Feedback	100%	Mon 10/20/08	Wed 10/22/08
238	MIS	Update Advance Search	100%	Thu 10/23/08	Fri 10/24/08
239	MIS	Create Search Zones	100%	Mon 10/27/08	Fri 10/31/08
240	MIS	Finalize Search Query	100%	Mon 11/3/08	Wed 11/12/08
241	**MIS**	**View By Protocal**	**100%**	**Thu 9/18/08**	**Wed 10/22/08**
242	MIS	Create View By Protocol Pass Through Portlet	100%	Thu 9/18/08	Fri 9/19/08
243	MIS	Create Links & Update Content for Build 7	100%	Mon 9/22/08	Wed 9/24/08
244	MIS	Create Links & Update Content for Build 8	100%	Thu 9/18/08	Mon 9/22/08
245	MIS	Create Links & Update Content for Build 9	100%	Wed 10/15/08	Wed 10/22/08
246	MIS	Build 9 and Prior Components Complete	100%	Wed 11/12/08	Wed 11/12/08
247	**MIS**	**Build 10 Portlet Components**	**100%**	**Mon 11/3/08**	**Wed 12/10/08**
248	**MIS**	**Notification Portlet**	**100%**	**Mon 11/17/08**	**Wed 12/10/08**
249	MIS	Create Notice Portlet	100%	Mon 11/17/08	Mon 11/24/08
250	MIS	Integrate with Notice Database	100%	Tue 11/25/08	Fri 12/5/08

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ID	Project Name	Task Name	% Complete	Start	Finish
251	MIS	Hard Code Portlet with MPIM Information	100%	Mon 12/8/08	Wed 12/10/08
252	**MIS**	**Notice Builder**	**100%**	**Mon 11/3/08**	**Wed 12/10/08**
253	MIS	Create App for Notice Creation	100%	Mon 11/3/08	Tue 11/25/08
254	MIS	Create UI for Notice Creation	100%	Mon 12/1/08	Wed 12/3/08
255	MIS	Pass Notice Information to Notices Database	100%	Thu 12/4/08	Wed 12/10/08
256	MIS	Portlet Components for Build 10 Complete	100%	Wed 12/10/08	Wed 12/10/08
257	**MIS**	**Build 11 Portlet Components**	**87%**	**Mon 8/25/08**	**Mon 3/9/09**
258	**MIS**	**Dashboards**	**87%**	**Fri 9/12/08**	**Mon 3/9/09**
259	MIS	Data Available from EIP034	100%	Fri 9/12/08	Fri 9/12/08
260	MIS	Dashboard Data Available from CDR	100%	Fri 9/12/08	Fri 9/12/08
261	**MIS**	**Review Dashboards with TPTF**	**100%**	**Thu 9/18/08**	**Wed 10/15/08**
262	MIS	LMP Contour Map	100%	Thu 9/18/08	Wed 10/15/08
263	MIS	Load Forecast vs. Actual	100%	Thu 9/18/08	Wed 10/15/08
264	MIS	Weather	100%	Thu 9/18/08	Wed 10/15/08
265	MIS	Day-Ahead & Real-Time LMPs	100%	Thu 9/18/08	Wed 10/15/08
266	MIS	DC Ties	100%	Thu 9/18/08	Wed 10/15/08
267	MIS	LMP Ticker	100%	Thu 9/18/08	Wed 10/15/08
268	MIS	ERCOT ACE	100%	Thu 9/18/08	Wed 10/15/08
269	MIS	Operating & Seven-Day Load Forecast	100%	Thu 9/18/08	Wed 10/15/08
270	MIS	Undeployed Responsive Reserve	100%	Thu 9/18/08	Wed 10/15/08
271	MIS	Non-Spinning Reserve	100%	Thu 9/18/08	Wed 10/15/08
272	MIS	Undeployed Reg Up & Reg Down	100%	Thu 9/18/08	Wed 10/15/08
273	MIS	Capacity for Inc/Dec Base Points in SCED	100%	Thu 9/18/08	Wed 10/15/08
274	MIS	Frequency	100%	Thu 9/18/08	Wed 10/15/08
275	**MIS**	**Construction**	**50%**	**Mon 10/20/08**	**Mon 3/9/09**
276	MIS	Update Wireframes Based on TPTF Feedback	100%	Mon 10/20/08	Mon 11/10/08
277	MIS	Create Dashboards in Jreports Based On Wireframes	50%	Tue 11/11/08	Fri 2/13/09
278	MIS	Link Dashboards to EIP Webservices	0%	Mon 2/16/09	Mon 3/2/09
279	MIS	Create Passthrough Portlets for Dashboards	0%	Tue 3/3/09	Mon 3/9/09
280	MIS	Dashboard Portal Components Complete	0%	Mon 3/9/09	Mon 3/9/09
281	**MIS**	**Portlet Type A for Reports**	**86%**	**Mon 8/25/08**	**Fri 2/6/09**
282	MIS	Set Up Jreports for Reporting (Initial)	100%	Mon 8/25/08	Wed 8/27/08
283	MIS	Procure Jinfonet Consulting Services	100%	Thu 8/28/08	Mon 11/24/08
284	MIS	Training (Jinfonet)	100%	Mon 1/5/09	Thu 1/8/09
285	MIS	Set Up Jreports for Reporting (Final)	75%	Fri 1/9/09	Fri 1/23/09

Wed 1/14/09

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ID	Project Name	Task Name	% Complete	Start	Finish
286	MIS	Integrate with MID/MIR Queries	0%	Mon 1/26/09	Fri 1/30/09
287	MIS	Update Report Formatting	0%	Mon 2/2/09	Wed 2/4/09
288	MIS	Create Passthourgh Porlet Look & Feel	0%	Thu 2/5/09	Fri 2/6/09
289	MIS	Portlet Components for Build 11 Complete	0%	Mon 3/9/09	Mon 3/9/09
290	**MIS**	**Build 12 Portlet Components**	**28%**	**Mon 11/17/08**	**Thu 4/9/09**
291	**MIS**	**Applications**	**21%**	**Mon 1/12/09**	**Thu 4/9/09**
292	**MIS**	**Extract Scheduler**	**21%**	**Mon 1/12/09**	**Thu 4/9/09**
293	MIS	Extract Scheduler Requirements complete	90%	Mon 1/12/09	Fri 1/30/09
294	MIS	Extract Scheduler Coding complete	0%	Mon 2/2/09	Fri 2/27/09
295	MIS	Extract scheduler testing complete	0%	Mon 3/2/09	Fri 3/6/09
296	MIS	Extract Scheduler links to MIS complete	0%	Mon 3/9/09	Fri 3/13/09
297	MIS	Deliver Completed Extract Scheduler links to EDW	0%	Fri 3/13/09	Fri 3/13/09
299	MIS	MP API built	0%	Mon 3/16/09	Thu 4/9/09
300	MIS	Extract Scheduler Complete	0%	Thu 4/9/09	Thu 4/9/09
301	**MIS**	**Help**	**22%**	**Thu 1/8/09**	**Fri 2/20/09**
302	MIS	Work with Training to Identify Level Of Help Required	100%	Thu 1/8/09	Fri 1/16/09
303	MIS	Create Help Information	0%	Mon 1/19/09	Fri 2/6/09
304	MIS	Update Portlet Areas with Help Information	0%	Mon 2/9/09	Fri 2/20/09
305	MIS	Help Complete	0%	Fri 2/20/09	Fri 2/20/09
306	**MIS**	**Load Balancing & Failover**	**45%**	**Mon 11/17/08**	**Tue 3/31/09**
307	MIS	Program External - Development Load Balancer Installed	0%	Mon 3/2/09	Mon 3/2/09
308	MIS	Install MIS Portal as a cluster on STEST	0%	Mon 3/2/09	Tue 3/3/09
309	MIS	Set up Apache load balancer for round robin load	0%	Wed 3/4/09	Thu 3/5/09
310	MIS	set up Tomcat cluster for both these machines	0%	Fri 3/6/09	Mon 3/9/09
311	MIS	Test for load balancing	0%	Tue 3/10/09	Tue 3/17/09
312	MIS	Update Configuration in iTEST	0%	Wed 3/18/09	Tue 3/24/09
313	MIS	Update Configuration in EDW	0%	Wed 3/25/09	Tue 3/31/09
314	MIS	Load Balancing & Failover Complete	0%	Tue 3/31/09	Tue 3/31/09
315	**MIS**	**LDAP Sync with ITEST**	**100%**	**Mon 11/17/08**	**Thu 12/4/08**
316	MIS	Set up failover box with new LDAP and Policy	100%	Mon 11/17/08	Fri 11/21/08
317	MIS	Ensure ports are open and node2nodes have been submitted	100%	Mon 11/17/08	Fri 11/21/08
318	MIS	Create updated LDIF with new structure	100%	Mon 11/24/08	Wed 12/3/08
319	MIS	Import new LDAP	100%	Thu 12/4/08	Thu 12/4/08
320	MIS	Update Policy to reflect LDAP changes	100%	Thu 12/4/08	Thu 12/4/08
321	MIS	Ensure all applications and environemtn piece point to new box	100%	Thu 12/4/08	Thu 12/4/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
322	MIS	Portlet Components for Build 12 Complete	0%	Thu 4/9/09	Thu 4/9/09
323	MIS	Portlet Components Complete	0%	Tue 3/31/09	Tue 3/31/09
324	MIS	MISProject End	0%	Tue 4/14/09	Tue 4/14/09
10	**Nodal IPS**	**COMS - Commercial Systems**	**64%**	**Mon 6/2/08**	**Mon 11/8/10**
1	**COMS**	**New COMS Program**	**64%**	**Mon 6/2/08**	**Mon 11/8/10**
2	COMS	COMS Replan Start	100%	Mon 6/2/08	Mon 6/2/08
3	**COMS**	**COMS: Settlements & Billing / Data Agg / CSI**	**88%**	**Mon 6/2/08**	**Thu 4/23/09**
4	COMS	Replan Start	100%	Mon 10/13/08	Mon 10/13/08
5	**COMS**	**Settlements & Billing (core)**	**100%**	**Mon 6/2/08**	**Tue 11/11/08**
6	**COMS**	**Planning**	**100%**	**Mon 6/2/08**	**Wed 10/8/08**
7	**COMS**	**Requirements**	**100%**	**Mon 6/2/08**	**Wed 10/8/08**
8	**COMS**	**Functional Requirements**	**100%**	**Mon 6/2/08**	**Wed 10/8/08**
9	COMS	S&B Functional Requirements Version 1 (protocol driven)	100%	Mon 6/2/08	Mon 6/2/08
10	COMS	S&B Functional Requirements Version 2 (protocol driven)	100%	Mon 6/2/08	Mon 6/2/08
11	COMS	S&B Functional Requirements Version 3 (protocol driven)	100%	Thu 10/2/08	Wed 10/8/08
12	COMS	Settlements & Billing Requirements Completed	100%	Wed 10/8/08	Wed 10/8/08
13	**COMS**	**Design**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
14	COMS	Develop S&B Functional Decomposition	100%	Mon 6/2/08	Mon 6/2/08
15	COMS	Develop S&B CSD/Detailed Design Version 1 (Functional Requirement driven)	100%	Mon 6/2/08	Mon 6/2/08
16	COMS	Settlements & Billing CSD/Detailed Design Complete	100%	Mon 6/2/08	Mon 6/2/08
17	**COMS**	**Technical Architecture**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
18	COMS	Draft TA document for Lodestar S&B environments	100%	Mon 6/2/08	Mon 6/2/08
19	COMS	Settlements & Billing TA Document Completed	100%	Mon 6/2/08	Mon 6/2/08
20	**COMS**	**Execution**	**100%**	**Mon 6/2/08**	**Tue 11/11/08**
21	**COMS**	**Infrastructure**	**100%**	**Mon 6/2/08**	**Fri 10/31/08**
22	COMS	Perform Build out of Development Env	100%	Mon 6/2/08	Mon 6/2/08
23	COMS	Perform Build out of PTEST (FAT) Env	100%	Mon 6/2/08	Mon 6/2/08
24	**COMS**	**Perform Build out of Itest Env**	**100%**	**Mon 6/2/08**	**Fri 10/31/08**
25	COMS	Setup Application Server	100%	Mon 6/2/08	Wed 9/3/08
26	COMS	Setup Fully integrated database	100%	Mon 6/2/08	Wed 9/3/08
27	COMS	Setup Pkg1 to Pkg 2 integrated database (IT00NDL)	100%	Mon 10/13/08	Fri 10/31/08
28	COMS	S&B iTEST Environment Setup Completed	100%	Fri 10/31/08	Fri 10/31/08
29	COMS	Perform Build out of Production Environment	100%	Mon 6/2/08	Tue 9/9/08
30	COMS	Settlements & Billing Environment Setup Complete	100%	Fri 10/31/08	Fri 10/31/08
31	**COMS**	**Test Cases**	**100%**	**Mon 6/2/08**	**Thu 10/9/08**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
32	COMS	Develop S&B Test Cases Version 1 (Functional Requirement Driven)	100%	Mon 6/2/08	Mon 6/2/08
33	COMS	Develop S&B Test Cases Version 2 (Functional Requirement Driven)	100%	Mon 6/2/08	Mon 6/2/08
34	COMS	Develop S&B Test Cases Version 3 (Functional Requirement Driven)	100%	Thu 10/9/08	Thu 10/9/08
35	COMS	Settlements & Billing Test Cases Developed	100%	Thu 10/9/08	Thu 10/9/08
36	**COMS**	**Test Scripts**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
37	COMS	Develop S&B Test Scripts for prePTEST	100%	Mon 6/2/08	Mon 6/2/08
38	COMS	Develop S&B Test Scripts for PTEST (FAT)	100%	Mon 6/2/08	Mon 6/2/08
39	COMS	Settlements & Billing Test Scripts Completed	100%	Mon 6/2/08	Mon 6/2/08
40	**COMS**	**Development**	**100%**	**Mon 6/2/08**	**Mon 7/14/08**
41	COMS	Develop Core Settlements & Billing Rules Language & PLSQL	100%	Mon 6/2/08	Mon 7/14/08
42	COMS	Core Settlements & Billing Code Complete	100%	Fri 7/11/08	Fri 7/11/08
43	**COMS**	**Testing**	**100%**	**Mon 6/2/08**	**Tue 11/11/08**
44	COMS	Perform S&B Unit Testing	100%	Mon 7/14/08	Mon 7/14/08
45	COMS	Perform S&B pre-PTEST	100%	Mon 6/2/08	Tue 7/15/08
46	**COMS**	**Perform PTEST**	**100%**	**Mon 7/14/08**	**Tue 11/11/08**
47	**COMS**	**Day Ahead Market**	**100%**	**Mon 7/14/08**	**Fri 8/15/08**
48	COMS	FAT Testing -DAM Energy	100%	Mon 7/14/08	Fri 8/15/08
49	COMS	FAT Testing - DAM AS	100%	Mon 7/14/08	Fri 8/15/08
50	COMS	FAT Testing - DAM Make Whole	100%	Mon 7/14/08	Fri 8/15/08
51	COMS	Fat Testing - DAM CRR	100%	Mon 7/14/08	Fri 8/15/08
52	COMS	DAM PTEST (FAT) Completed	100%	Fri 8/15/08	Fri 8/15/08
53	**COMS**	**Real Time Market**	**100%**	**Mon 7/14/08**	**Tue 11/11/08**
54	COMS	FAT Testing - RTM Energy	100%	Mon 7/14/08	Wed 10/22/08
55	COMS	FAT Testing - RTM RUC	100%	Mon 7/14/08	Tue 11/11/08
56	COMS	FAT Testing - RTM CRR	100%	Mon 7/14/08	Tue 11/11/08
57	COMS	FAT Testing - RTM AS	100%	Mon 7/14/08	Wed 10/22/08
58	COMS	FAT Testing - RTM VSS	100%	Mon 7/14/08	Wed 10/22/08
59	COMS	FAT Testing - RTM Black Start	100%	Mon 7/14/08	Wed 10/22/08
60	COMS	FAT Testing - RTM RMR	100%	Mon 7/14/08	Tue 11/11/08
61	COMS	RTM pTEST (FAT) Completed	100%	Tue 11/11/08	Tue 11/11/08
62	**COMS**	**Statements & Invoices**	**100%**	**Mon 7/14/08**	**Tue 11/11/08**
63	COMS	FAT Testing - DAM Statements	100%	Mon 7/14/08	Mon 7/14/08
64	COMS	FAT Testing - DAM invoices	100%	Mon 7/14/08	Mon 7/14/08
65	COMS	FAT Testing - RTM Statements	100%	Mon 7/14/08	Tue 11/11/08
66	COMS	FAT Testing - RTM Invoices	100%	Mon 7/14/08	Wed 10/22/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
67	COMS	FAT Testing - CARD	100%	Mon 7/14/08	Tue 11/11/08
68	COMS	FAT Testing - CRR Balancing Account	100%	Mon 7/14/08	Tue 11/11/08
69	COMS	FAT Testing - Staments & Invoices pTEST(FAT) Completed	100%	Tue 11/11/08	Tue 11/11/08
70	COMS	FAT Testing - AIEC	100%	Mon 7/14/08	Tue 11/11/08
71	COMS	FAT Testing - Eligibility	100%	Mon 7/14/08	Tue 11/11/08
72	COMS	FAT Testing - CCU Special Build	100%	Mon 7/14/08	Tue 8/5/08
73	COMS	FAT Testing - Flowgate Special Build	100%	Mon 7/14/08	Tue 8/5/08
74	COMS	FAT Testing - Verify Settlements & Billing PTEST TAT) for Release to iTest	100%	Mon 8/18/08	Mon 10/27/08
75	COMS	Settlements & Billing PTEST(FAT) complete	100%	Tue 11/11/08	Tue 11/11/08
76	**COMS**	**Migration**	**100%**	**Tue 10/28/08**	**Fri 10/31/08**
77	COMS	Generate MMCR (S&B Core Lodestar)	100%	Tue 10/28/08	Wed 10/29/08
78	COMS	Tag all components for initial iTEST Build (S&B core Lodestar)	100%	Tue 10/28/08	Tue 10/28/08
79	COMS	Produce Bundle & Release Notes (S&B Core Lodestar)	100%	Wed 10/29/08	Thu 10/30/08
80	COMS	Deliver Settlements & Billing Migration to ITEST	100%	Fri 10/31/08	Fri 10/31/08
82	**COMS**	**Data Aggregation (core)**	**72%**	**Mon 6/2/08**	**Fri 1/30/09**
83	**COMS**	**Planning**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
84	**COMS**	**Requirements**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
85	**COMS**	**Functional Requirements**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
86	COMS	Data Aggregation Functional Requirements Version 1 (protocol driven)	100%	Mon 6/2/08	Mon 6/2/08
87	COMS	Data Aggregation Functional Requirements Completed	100%	Mon 6/2/08	Mon 6/2/08
88	**COMS**	**Design**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
89	COMS	Develop Data Agg Functional Decomposition	100%	Mon 6/2/08	Mon 6/2/08
90	COMS	Devlop Data Agg CSD/Detailed Design Version 1 (Functional Requirement driven)	100%	Mon 6/2/08	Mon 6/2/08
91	COMS	Data Aggregation CSD/Detailed Design Completed	100%	Mon 6/2/08	Mon 6/2/08
92	**COMS**	**Technical Architecture**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
93	COMS	Confirm Data Agg TA with S&B TA	100%	Mon 6/2/08	Mon 6/2/08
94	COMS	Verify Data Agg datamodel constraints with S&B	100%	Mon 6/2/08	Mon 6/2/08
95	**COMS**	**Execution**	**72%**	**Mon 6/2/08**	**Fri 1/30/09**
96	**COMS**	**Infrastructure**	**100%**	**Mon 6/2/08**	**Fri 10/31/08**
97	COMS	Perform Build out of Development Env	100%	Mon 6/2/08	Mon 6/2/08
98	COMS	Perform Build out of PTEST (FAT) Env	100%	Mon 6/2/08	Mon 6/2/08
99	**COMS**	**Perform Build out of Itest Env**	**100%**	**Mon 6/2/08**	**Fri 10/31/08**
100	COMS	Confirm Data Agg Application Server (same as S&B)	100%	Mon 6/2/08	Wed 9/3/08
101	COMS	Confirm Data Agg Fully integrated database (same as S&B)	100%	Mon 6/2/08	Wed 9/3/08
102	COMS	Confirm Data Agg Pkg1 to Pkg 2 integrated database (same as S&B)	100%	Mon 10/13/08	Fri 10/31/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
103	COMS	Data Agg iTEST Environment Setup Completed	100%	Fri 10/31/08	Fri 10/31/08
104	COMS	Perform Build out of Production Data Agg Environment (same as S&B)	100%	Mon 6/2/08	Tue 9/9/08
105	COMS	Data Aggregation Environment Setup Complete	100%	Fri 10/31/08	Fri 10/31/08
106	**COMS**	**Test Cases**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
107	COMS	Develop Data Agg Test Cases Version 1 (Functional Requirement Driven)	100%	Mon 6/2/08	Mon 6/2/08
108	COMS	Data Aggregation Test Cases Developed	100%	Mon 6/2/08	Mon 6/2/08
109	**COMS**	**Test Scripts**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
110	COMS	Develop Data AggTest Scripts for prePTEST (None Defined)	100%	Mon 6/2/08	Mon 6/2/08
111	COMS	Develop Data AggTest Scripts for PTEST (FAT) (None Defined)	100%	Mon 6/2/08	Mon 6/2/08
112	COMS	Data Aggregation Test Scripts Completed	100%	Mon 6/2/08	Mon 6/2/08
113	**COMS**	**Development**	**100%**	**Mon 6/2/08**	**Tue 9/30/08**
114	COMS	Develop Core Data Aggregation Rules Language & PLSQL	100%	Mon 6/2/08	Tue 9/30/08
115	COMS	Core Data Aggregation Code Complete	100%	Fri 9/26/08	Fri 9/26/08
116	**COMS**	**Testing**	**40%**	**Fri 9/26/08**	**Fri 1/30/09**
117	COMS	Perform Data Aggregation Unit Testing	100%	Fri 9/26/08	Mon 9/29/08
118	COMS	Perform Data Aggregation pre-PTEST	100%	Mon 9/29/08	Tue 9/30/08
119	**COMS**	**Perform PTEST**	**40%**	**Wed 10/1/08**	**Fri 1/30/09**
120	COMS	FAT Testing - Execute Core Data Aggregation & verify results	100%	Wed 10/1/08	Fri 10/3/08
121	COMS	FAT Testing - Validate Data Agg processing of NOIE	100%	Mon 10/6/08	Fri 10/10/08
122	COMS	FAT Testing - Verify Data Aggregation Distributed Generation outputs	35%	Mon 10/13/08	Fri 1/30/09
123	COMS	FAT Testing - Perform Baseline Data Agg Zonal 15 Day Run	35%	Mon 10/13/08	Fri 1/23/09
124	COMS	FAT Testing - Perform Baseline Data Agg Nodal 15 Day Run	35%	Mon 10/13/08	Fri 1/23/09
125	COMS	FAT Testing - Verify 15 Day Nodal vs. 15 Day Zonal (Data Aggregation)	35%	Mon 10/20/08	Fri 1/23/09
126	COMS	FAT Testing - Sync Metadata	100%	Wed 11/19/08	Wed 11/19/08
127	COMS	FAT Testing - Verify Data Agg for Release to iTest	100%	Mon 10/13/08	Mon 10/27/08
128	COMS	Data Aggregation PTEST(FAT) Complete	0%	Fri 1/30/09	Fri 1/30/09
129	**COMS**	**Migration**	**100%**	**Tue 10/28/08**	**Thu 10/30/08**
130	COMS	Generate MMCR Tag all components for initial iTEST Build (Data Agg core Lodestar)	100%	Tue 10/28/08	Wed 10/29/08
131	COMS	Produce Bundle & Release Notes (Data Agg core Lodestar)	100%	Thu 10/30/08	Thu 10/30/08
132	COMS	Deliver Data Aggregation Migration to ITEST	100%	Thu 10/30/08	Thu 10/30/08
134	**COMS**	**AppWorx (core)**	**100%**	**Mon 6/2/08**	**Fri 10/31/08**
135	**COMS**	**Planning**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
136	**COMS**	**Requirements**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
137	COMS	Requirements - Defined in Functional Decompositions	100%	Mon 6/2/08	Mon 6/2/08
138	**COMS**	**Design**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
139	COMS	Generate Appworx Design Document	100%	Mon 6/2/08	Mon 6/2/08
140	COMS	AppWorx Core Design completed	100%	Mon 6/2/08	Mon 6/2/08
141	**COMS**	**Technical Architecture**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
142	COMS	Draft TA document for Appworx environments	100%	Mon 6/2/08	Mon 6/2/08
143	COMS	Settlements & Billing TA Document Completed	100%	Mon 6/2/08	Mon 6/2/08
144	**COMS**	**Execution**	**100%**	**Mon 6/2/08**	**Fri 10/31/08**
145	**COMS**	**Infrastructure**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
146	COMS	Perform Build out of Appworx Development Env	100%	Mon 6/2/08	Mon 6/2/08
147	COMS	Perform Build out of Appworkx PTEST (FAT) Env	100%	Mon 6/2/08	Mon 6/2/08
148	**COMS**	**Perform Build out of Itest Env**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
149	COMS	Confirm Appworx Application Server	100%	Mon 6/2/08	Mon 6/2/08
150	COMS	Confirm Appworx Master Database	100%	Mon 6/2/08	Mon 6/2/08
151	COMS	ITEST Appworx Environment Setup Completed	100%	Mon 6/2/08	Mon 6/2/08
152	COMS	Perform Build out of Production Appworx Environment	100%	Mon 6/2/08	Mon 6/2/08
153	COMS	Appworx Environment Setup Complete	100%	Mon 6/2/08	Mon 6/2/08
154	**COMS**	**Development**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
155	COMS	Code Appworx Base scheduler jobs	100%	Mon 6/2/08	Mon 6/2/08
156	COMS	Code Appworx Nodal Batch Scheduler for DAM	100%	Mon 6/2/08	Mon 6/2/08
157	COMS	Code Appworx Nodal Batch Scheduler for RTM w/o Data Agg	100%	Mon 6/2/08	Mon 6/2/08
158	COMS	Code Appworx Nodal Batch Scheduler for RTM	100%	Mon 6/2/08	Mon 6/2/08
159	COMS	Code Appworx Nodal Batch scheduler for CRR	100%	Mon 6/2/08	Mon 6/2/08
160	COMS	Appwork core Build complete	100%	Mon 6/2/08	Mon 6/2/08
161	**COMS**	**Testing**	**100%**	**Mon 6/2/08**	**Fri 10/24/08**
162	COMS	Perform Appworx Unit Testing	100%	Mon 6/2/08	Mon 6/2/08
163	COMS	Perform Appworx pre-PTEST	100%	Mon 6/2/08	Fri 7/18/08
164	**COMS**	**Perform PTEST**	**100%**	**Mon 6/2/08**	**Fri 10/24/08**
165	COMS	FAT Testing - Appworx Base scheduler jobs	100%	Fri 7/18/08	Mon 9/22/08
166	COMS	FAT Testing - Appworx Nodal Batch Scheduler for DAM	100%	Mon 6/2/08	Tue 9/23/08
167	COMS	FAT Testing - Appworx Nodal Batch Scheduler for RTM w/o Data Agg	100%	Mon 6/2/08	Tue 9/23/08
168	COMS	FAT Testing - Appworx Nodal Batch Scheduler for RTM	100%	Mon 10/13/08	Fri 10/24/08
169	COMS	FAT Testing - Appworx Nodal Batch scheduler for CRR	100%	Fri 7/18/08	Mon 9/22/08
170	COMS	Appworx PTEST(FAT) complete	100%	Fri 10/24/08	Fri 10/24/08
171	**COMS**	**Migration**	**100%**	**Mon 10/27/08**	**Fri 10/31/08**
172	COMS	Generate MMCR (Appworx 1)	100%	Mon 10/27/08	Tue 10/28/08
173	COMS	Tag all components for initial iTEST Build (Appworx 1)	100%	Mon 10/27/08	Mon 10/27/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
174	COMS	Produce Bundle & Release Notes (Appworx 1)	100%	Tue 10/28/08	Wed 10/29/08
175	COMS	Deliver Appworx Migration to ITEST	100%	Fri 10/31/08	Fri 10/31/08
177	**COMS**	**CSI (core)**	**94%**	**Mon 6/2/08**	**Fri 1/30/09**
178	**COMS**	**Planning**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
179	**COMS**	**Requirements**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
180	COMS	Generate overall integration requirements	100%	Mon 6/2/08	Mon 6/2/08
181	COMS	CSI Integration Requirements Completed	100%	Mon 6/2/08	Mon 6/2/08
182	**COMS**	**Design**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
183	COMS	Generate CSI Conceptual Design & Architecture	100%	Mon 6/2/08	Mon 6/2/08
184	COMS	CSI Architecture Design completed	100%	Mon 6/2/08	Mon 6/2/08
185	**COMS**	**Technical Architecture**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
186	COMS	Draft TA document for CSI environments	100%	Mon 6/2/08	Mon 6/2/08
187	COMS	CSI TA Document Completed	100%	Mon 6/2/08	Mon 6/2/08
188	**COMS**	**Execution**	**94%**	**Mon 6/2/08**	**Fri 1/30/09**
189	**COMS**	**Infrastructure**	**100%**	**Mon 6/2/08**	**Fri 10/17/08**
190	COMS	Perform Build out of CSI Development Env	100%	Mon 6/2/08	Mon 6/2/08
191	**COMS**	**Perform Build out of Itest Env**	**100%**	**Mon 10/13/08**	**Fri 10/17/08**
192	COMS	Confirm CSI database in place (IT00CSI)	100%	Mon 10/13/08	Mon 10/13/08
193	COMS	Confirm CSI Tibco Infrastructure in Place	100%	Tue 10/14/08	Fri 10/17/08
194	COMS	ITEST CSI Environment Setup Confirmed	100%	Fri 10/17/08	Fri 10/17/08
195	COMS	CSI Environment Setup Complete	100%	Fri 10/17/08	Fri 10/17/08
196	**COMS**	**Development/Testing/Migration**	**94%**	**Mon 6/2/08**	**Fri 1/30/09**
197	**COMS**	**CSI Settlements & Billing**	**95%**	**Mon 6/2/08**	**Fri 1/30/09**
198	COMS	Release 4.2 (MMS & CRR data, DAM Settlements) Complete	100%	Mon 6/2/08	Mon 6/2/08
199	COMS	Release 4.3 (MMS data - release 1) Complete	100%	Mon 6/2/08	Mon 6/2/08
200	COMS	Release 4.4 (MMS data - release 2) Complete	100%	Mon 6/2/08	Mon 6/2/08
201	COMS	Release 5.1 (EMS data, CRR stuff - release 1) Complete	100%	Mon 6/2/08	Mon 6/2/08
202	**COMS**	**CSI Release 5.2 (EMS data - release 2, RUC)**	**100%**	**Mon 8/18/08**	**Mon 8/18/08**
203	COMS	Release 5.2 Code base complete	100%	Mon 8/18/08	Mon 8/18/08
204	**COMS**	**CSI Release 5.3 (SASM, EMS-Release 3, MMS4-Release 1, GUI-Release 1, Misc)**	**100%**	**Fri 8/15/08**	**Fri 9/19/08**
205	COMS	Release 5.3 Code base complete	100%	Fri 8/15/08	Fri 9/19/08
206	**COMS**	**CSI Release 5.4 (MMS4-Release 2, Outbounds, Bug Fixes, Misc)**	**100%**	**Fri 9/19/08**	**Thu 10/16/08**
207	COMS	CSI 5.4 - Code Framework	100%	Fri 9/19/08	Fri 9/19/08
208	**COMS**	**CSI 5.4 - Code business logic**	**100%**	**Fri 9/19/08**	**Fri 9/26/08**
209	COMS	Capacity Factor (outbound interface)	100%	Fri 9/19/08	Wed 9/24/08

Wed 1/14/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
210	COMS	RMR contracts (outbound interface)	100%	Fri 9/19/08	Wed 9/24/08
211	COMS	Verifiable Cost (outbound interface)	100%	Fri 9/19/08	Fri 9/26/08
212	COMS	CRR Payment confirmation (outbound interface)	100%	Fri 9/19/08	Fri 9/19/08
213	COMS	Bill Determinants	100%	Fri 9/19/08	Fri 9/26/08
214	COMS	CSI 5.4 - Generate Test Data	100%	Fri 9/19/08	Fri 9/19/08
215	COMS	CSI 5.4 - Code Integration of business logic & Framework	100%	Fri 9/19/08	Fri 9/26/08
216	COMS	Release 5.4 Code base complete	100%	Fri 9/26/08	Fri 9/26/08
217	**COMS**	**Release 5.4 pTEST**	**100%**	**Mon 9/29/08**	**Tue 10/14/08**
218	COMS	CSI 5.4 - FAT/Business testing - cycle 1	100%	Mon 9/29/08	Fri 10/3/08
219	COMS	CSI 5.4 - Code drop - FAT/bug fixes	100%	Tue 9/30/08	Fri 10/3/08
220	COMS	CSI 5.4 - FAT/Business testing - cycle 2	100%	Mon 10/6/08	Tue 10/14/08
221	COMS	Release 5.4 business/product testing Complete	100%	Tue 10/14/08	Tue 10/14/08
222	**COMS**	**CSI Migration 5.4**	**100%**	**Wed 10/15/08**	**Thu 10/16/08**
223	COMS	Generate MMCR for ITEST (CSI 5.4)	100%	Wed 10/15/08	Wed 10/15/08
224	COMS	Tag all components for initial iTEST Build (CSI 5.4)	100%	Wed 10/15/08	Wed 10/15/08
225	COMS	Produce Bundle & Release Notes (CSI 5.4)	100%	Thu 10/16/08	Thu 10/16/08
226	COMS	Deliver CSI 5.4 Release Migration to ITEST	100%	Thu 10/16/08	Thu 10/16/08
228	**COMS**	**CSI Release 5.5 (NMMS-S&B, Remaining Determinants, Bug Fixes, Misc)**	**93%**	**Mon 10/13/08**	**Fri 1/30/09**
229	COMS	CSI 5.5 - Confirm Scope & Requirements	100%	Mon 10/13/08	Fri 10/17/08
230	COMS	CSI 5.5 - Code Framework	100%	Mon 10/20/08	Fri 1/9/09
231	COMS	CSI 5.5 - Code business logic	100%	Mon 10/20/08	Fri 1/9/09
232	COMS	CSI 5.5 - Generate Test Data	95%	Mon 10/20/08	Fri 1/23/09
233	COMS	CSI 5.5 - Code Integration of business logic & Framework (orchestration)	95%	Mon 10/20/08	Fri 1/23/09
234	COMS	CSI 5.5 - Code Base Complete	0%	Fri 1/23/09	Fri 1/23/09
235	**COMS**	**Release 5.5 PTEST**	**86%**	**Mon 11/17/08**	**Fri 1/30/09**
236	COMS	CSI 5.5 - FAT/Business testing - cycle 1	100%	Mon 11/17/08	Fri 12/5/08
237	COMS	CSI 5.5 - Code drop - FAT/bug fixes	100%	Mon 12/1/08	Fri 1/9/09
238	COMS	CSI 5.5 - FAT/Business testing - cycle 2	0%	Mon 1/26/09	Fri 1/30/09
239	COMS	CSI 5.5 - FAT/business testing Complete	0%	Fri 1/30/09	Fri 1/30/09
240	**COMS**	**Migration 5.5**	**0%**	**Mon 1/26/09**	**Fri 1/30/09**
241	COMS	CSI 5.5 - Generate MMCR	0%	Mon 1/26/09	Mon 1/26/09
242	COMS	CSI 5.5 - Tag all components for initial iTEST Build	0%	Mon 1/26/09	Wed 1/28/09
243	COMS	CSI 5.5 - Produce Bundle & Release Notes	0%	Thu 1/29/09	Fri 1/30/09
244	COMS	Deliver CSI 5.5 - Migration to ITEST	0%	Fri 1/30/09	Fri 1/30/09
246	**COMS**	**Credit Monitoring (CMM)**	**94%**	**Fri 9/19/08**	**Fri 1/30/09**

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ID	Project Name	Task Name	% Complete	Start	Finish
247	**COMS**	**Release 6.1 (Formerly 5.1 & 5.2) (DAM-Release 1, RTM Release 1, S&B to CMM Interfaces, Staging Loa**	**100%**	**Fri 9/19/08**	**Fri 10/17/08**
248	COMS	CSI 6.1 - Code Framework	100%	Fri 9/19/08	Wed 9/24/08
249	COMS	CSI 6.1 - Code business logic	100%	Fri 9/19/08	Wed 9/24/08
250	COMS	CSI 6.1 - Generate Test Data	100%	Fri 9/19/08	Wed 9/24/08
251	COMS	CSI 6.1 - Code Integration of business logic & Framework	100%	Fri 9/19/08	Fri 9/26/08
252	COMS	CMM Release 6.1 Code base complete	100%	Fri 9/26/08	Fri 9/26/08
253	**COMS**	**Release 6.1 pTEST**	**100%**	**Mon 9/29/08**	**Mon 10/13/08**
254	COMS	CSI 6.1 - FAT/Business testing - cycle 1	100%	Mon 9/29/08	Fri 10/3/08
255	COMS	CSI 6.1 - Code drop - FAT/bug fixes	100%	Tue 9/30/08	Fri 10/3/08
256	COMS	CSI 6.1 - FAT/Business testing - cycle 2	100%	Mon 10/6/08	Mon 10/13/08
257	COMS	CSI 6.1 - FAT/business testing Complete	100%	Mon 10/13/08	Mon 10/13/08
258	**COMS**	**Migration 6.1**	**100%**	**Tue 10/14/08**	**Fri 10/17/08**
259	COMS	CSI 6.1 - Generate MMCR (CSI 6.1)	100%	Tue 10/14/08	Tue 10/14/08
260	COMS	CSI 6.1 - Tag all components for initial iTEST Build (CSI 6.1)	100%	Tue 10/14/08	Thu 10/16/08
261	COMS	CSI 6.1 - Produce Bundle & Release Notes (CSI 6.1)	100%	Fri 10/17/08	Fri 10/17/08
262	COMS	Deliver CSI 6.1 Release Migration to iTEST	100%	Fri 10/17/08	Fri 10/17/08
264	**COMS**	**Release 6.3 (CRR UDAA, New Credit Determinants, CMM Loaders)**	**93%**	**Thu 10/16/08**	**Fri 1/30/09**
265	COMS	CSI 6.3 - Confirm Scope & Requirements	100%	Thu 10/16/08	Fri 10/17/08
266	COMS	CSI 6.3 - Code Framework	100%	Mon 10/20/08	Fri 1/9/09
267	COMS	CSI 6.3 - Code business logic	100%	Mon 10/20/08	Fri 1/9/09
268	COMS	CSI 6.3 - Generate Test Data	100%	Mon 10/20/08	Fri 1/9/09
269	COMS	CSI 6.3 - Code Integration of business logic & Framework (orchestration)	100%	Mon 10/20/08	Fri 1/9/09
270	COMS	CSI 6.3 - Code base complete	100%	Fri 1/9/09	Fri 1/9/09
271	**COMS**	**CSI 6.3 - PTEST**	**79%**	**Mon 11/17/08**	**Fri 1/30/09**
272	COMS	CSI 6.3 - FAT/Business testing - cycle 1	100%	Mon 11/17/08	Fri 12/5/08
273	COMS	CSI 6.3 - Code drop - FAT/bug fixes	100%	Mon 11/17/08	Fri 1/9/09
274	COMS	CSI 6.3 - Business testing - cycle 2	25%	Mon 1/12/09	Fri 1/30/09
275	COMS	CSI 6.3 - FAT/business testing Complete	0%	Fri 1/30/09	Fri 1/30/09
276	**COMS**	**Migration 6.3**	**0%**	**Fri 1/23/09**	**Fri 1/30/09**
277	COMS	CSI 6.3 - Generate MMCR	0%	Fri 1/23/09	Fri 1/23/09
278	COMS	CSI 6.3 - Tag all components for initial iTEST Build	0%	Fri 1/23/09	Thu 1/29/09
279	COMS	CSI 6.3 - Produce Bundle & Release Notes	0%	Fri 1/30/09	Fri 1/30/09
280	COMS	Deliver CSI 6.3 - Migration to ITEST	0%	Fri 1/30/09	Fri 1/30/09
282	**COMS**	**Extracts & Reports**	**59%**	**Mon 10/13/08**	**Wed 2/25/09**
283	**COMS**	**Source System Reports**	**59%**	**Mon 10/13/08**	**Wed 2/25/09**

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ID	Project Name	Task Name	% Complete	Start	Finish
284	**COMS**	**Settlements & Billing**	**71%**	**Mon 10/13/08**	**Tue 2/10/09**
285	**COMS**	**S&B Internal Reports**	**83%**	**Mon 10/13/08**	**Tue 2/10/09**
286	COMS	E&R: S&B Internal Reports - Gather Requirements	100%	Mon 10/13/08	Fri 11/21/08
287	COMS	E&R: S&B Internal Reports - Code Reports	0%	Wed 2/4/09	Wed 2/4/09
288	COMS	E&R: S&B Internal Reports - Coding Complete	0%	Wed 2/4/09	Wed 2/4/09
289	COMS	E&R: S&B Internal Reports - PTEST (FAT) Testing	0%	Thu 2/5/09	Fri 2/6/09
290	COMS	E&R: S&B Internal Reports FAT Testing Complete	0%	Fri 2/6/09	Fri 2/6/09
291	**COMS**	**Migration E&R: S&B Internal Reports**	**0%**	**Mon 2/9/09**	**Tue 2/10/09**
292	COMS	E&R: S&B Internal Reports - Generate MMCR	0%	Mon 2/9/09	Mon 2/9/09
293	COMS	E&R: S&B Internal Reports - Tag all components for initial iTEST Build	0%	Mon 2/9/09	Mon 2/9/09
294	COMS	E&R: S&B Internal Reports - Produce Bundle & Release Notes	0%	Tue 2/10/09	Tue 2/10/09
295	COMS	Deliver E&R: S&B Internal Reports - Migration to ITEST	0%	Tue 2/10/09	Tue 2/10/09
297	**COMS**	**S&B External Reports**	**63%**	**Mon 10/13/08**	**Tue 2/10/09**
298	COMS	E&R: S&B External Reports - Gather Requirements	100%	Mon 10/13/08	Fri 11/21/08
299	**COMS**	**E&R: S&B External Reports - Code Reports**	**0%**	**Wed 2/4/09**	**Wed 2/4/09**
300	COMS	E&R: S&B - Code Monthly RUC Make Whole & Clawback Payment Report	0%	Wed 2/4/09	Wed 2/4/09
301	COMS	E&R: S&B - CodeProtocol Section 8 Reports - (Open NPRR)	0%	Wed 2/4/09	Wed 2/4/09
302	COMS	E&R: S&B - Code Monthly Energy Deployed by RMR Units	0%	Wed 2/4/09	Wed 2/4/09
303	COMS	E&R: S&B - Code Missing Consumption Report (CODIA)	0%	Wed 2/4/09	Wed 2/4/09
304	COMS	E&R: S&B - Code Ercot Summary Dispute Report	0%	Wed 2/4/09	Wed 2/4/09
305	COMS	E&R: S&B External Reports - Coding Complete	0%	Wed 2/4/09	Wed 2/4/09
306	**COMS**	**E&R: S&B External Reports - PTEST (FAT) Testing**	**0%**	**Thu 2/5/09**	**Fri 2/6/09**
307	COMS	E&R: S&B - FAT TESTING - Monthly RUC Make Whole & Clawback Payment Report	0%	Thu 2/5/09	Fri 2/6/09
308	COMS	E&R: S&B - FAT TESTING - Protocol Section 8 Reports - (Open NPRR)	0%	Thu 2/5/09	Fri 2/6/09
309	COMS	E&R: S&B - FAT TESTING - Monthly Energy Deployed by RMR Units	0%	Thu 2/5/09	Fri 2/6/09
310	COMS	E&R: S&B - FAT TESTING - Missing Consumption Report (CODIA)	0%	Thu 2/5/09	Fri 2/6/09
311	COMS	E&R: S&B - FAT TESTING - Ercot Summary Dispute Report (WCS)	0%	Thu 2/5/09	Fri 2/6/09
312	COMS	E&R: S&B External Reports FAT Testing Complete	0%	Fri 2/6/09	Fri 2/6/09
313	**COMS**	**Migration E&R: S&B, CODIA, WCS External Reports**	**0%**	**Mon 2/9/09**	**Tue 2/10/09**
314	COMS	E&R: S&B - Generate MMCR	0%	Mon 2/9/09	Mon 2/9/09
315	COMS	E&R: S&B - Tag all components for initial iTEST Build	0%	Mon 2/9/09	Mon 2/9/09
316	COMS	E&R: S&B - Produce Bundle & Release Notes	0%	Tue 2/10/09	Tue 2/10/09
317	COMS	Deliver E&R: S&B - Migration to ITEST	0%	Tue 2/10/09	Tue 2/10/09
319	**COMS**	**Data Aggregation**	**50%**	**Mon 10/13/08**	**Wed 2/25/09**
320	**COMS**	**Data Agg Internal Reports**	**71%**	**Mon 10/13/08**	**Wed 2/25/09**

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ID	Project Name	Task Name	% Complete	Start	Finish
321	COMS	E&R: Data Agg Internal Reports - Gather Requirements	100%	Mon 10/13/08	Fri 11/21/08
322	COMS	E&R: Data Agg Internal Reports - Requirements Completed	100%	Fri 11/21/08	Fri 11/21/08
323	COMS	E&R: Data Agg Internal Reports - Code Reports	0%	Wed 2/11/09	Tue 2/17/09
324	COMS	E&R: Data Agg Internal Reports - Coding Complete	0%	Tue 2/17/09	Tue 2/17/09
325	COMS	E&R: Data Agg Internal Reports - PTEST (FAT) Testing	0%	Wed 2/18/09	Mon 2/23/09
326	COMS	E&R: Data Agg Internal Reports FAT Testing Complete	0%	Mon 2/23/09	Mon 2/23/09
327	**COMS**	**Migration E&R: Data Agg Internal Reports**	**0%**	**Tue 2/24/09**	**Wed 2/25/09**
328	COMS	E&R: Data Agg Internal Reports - Generate MMCR	0%	Tue 2/24/09	Tue 2/24/09
329	COMS	E&R: Data Agg Internal Reports - Tag all components for initial iTEST Build	0%	Tue 2/24/09	Tue 2/24/09
330	COMS	E&R: Data Agg Internal Reports - Produce Bundle & Release Notes	0%	Wed 2/25/09	Wed 2/25/09
331	COMS	Deliver E&R: Data Agg Internal Reports - Migration to ITEST	0%	Wed 2/25/09	Wed 2/25/09
333	**COMS**	**Data Agg External Reports**	**38%**	**Mon 10/13/08**	**Tue 2/24/09**
334	COMS	E&R: Data Agg External Reports - Gather Requirements	100%	Mon 10/13/08	Fri 11/21/08
335	**COMS**	**E&R: Data Agg External Reports - Code Reports**	**0%**	**Wed 2/11/09**	**Thu 2/19/09**
336	COMS	E&R: Data Agg External Reports - Code Reports	0%	Wed 2/11/09	Thu 2/19/09
337	COMS	E&R: Data AggExternal Reports - Coding Complete	0%	Thu 2/19/09	Thu 2/19/09
338	**COMS**	**E&R: Data Agg External Reports - PTEST (FAT) Testing**	**0%**	**Fri 2/20/09**	**Tue 2/24/09**
339	COMS	E&R: Data Agg External Reports - FAT TESTING - Default Profile ESIID	0%	Fri 2/20/09	Tue 2/24/09
340	COMS	E&R: Data Agg External Reports - FAT TESTING - Load Estimation counts - Public	0%	Fri 2/20/09	Tue 2/24/09
341	COMS	E&R: Data Agg External Reports - FAT TESTING -Load Estimation volume - Public	0%	Fri 2/20/09	Tue 2/24/09
342	COMS	E&R: Data Agg External Reports - FAT TESTING - Load Estimation counts - Certified	0%	Fri 2/20/09	Tue 2/24/09
343	COMS	E&R: Data Agg External Reports - FAT TESTING - Load Estimation volume - Certified	0%	Fri 2/20/09	Tue 2/24/09
344	COMS	E&R: Data Agg External Reports - FAT TESTING - Actual Transmission Loss Factor	0%	Fri 2/20/09	Tue 2/24/09
345	COMS	E&R: Data Agg External Reports - FAT TESTING - Forecasted Transmission Loss Factor	0%	Fri 2/20/09	Tue 2/24/09
346	COMS	E&R: Data Agg External Reports - FAT TESTING - Forecasted Distribution Loss Factor	0%	Fri 2/20/09	Tue 2/24/09
347	COMS	E&R: Data Agg External Reports - FAT TESTING - Actual distribution Loss Factor	0%	Fri 2/20/09	Tue 2/24/09
348	COMS	E&R: Data Agg External Reports - FAT TESTING - Data Aggregation Daily Postings	0%	Fri 2/20/09	Tue 2/24/09
349	COMS	E&R: Data Agg External Reports - FAT TESTING - WS & NWS IDR Proxy Dates	0%	Fri 2/20/09	Tue 2/24/09
350	COMS	E&R: Data Agg External Reports - FAT TESTING - Annual Distribution Loss Factors	0%	Fri 2/20/09	Tue 2/24/09
351	COMS	E&R: Data Agg External Reports - FAT TESTING - UFE Analysis Report	0%	Fri 2/20/09	Tue 2/24/09
352	COMS	E&R: Data Agg External Reports - FAT TESTING - Capacity Factors by Resource	0%	Fri 2/20/09	Tue 2/24/09
353	COMS	Deliver E&R: Data Agg External Reports FAT Testing to iTEST	0%	Tue 2/24/09	Tue 2/24/09
355	**COMS**	**Settlements & Billing/Data Agg Supplemental/Refactoring**	**82%**	**Mon 11/3/08**	**Tue 2/3/09**
356	**COMS**	**S&B/Data Agg Refactor 1**	**82%**	**Mon 11/3/08**	**Tue 2/3/09**
357	COMS	S&B/DA RF1 - Confirm Scope & Requirements	100%	Mon 11/3/08	Mon 11/17/08

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ID	Project Name	Task Name	% Complete	Start	Finish
358	COMS	S&B/Da RF1 - Make Code Changes	100%	Tue 11/18/08	Thu 1/8/09
359	COMS	S&B/DA RF1 - Generate Test Data	100%	Tue 11/18/08	Thu 1/8/09
360	COMS	S&B/DA RF1 - Code base complete	100%	Thu 1/8/09	Thu 1/8/09
361	**COMS**	**S&B/DA Refactor 1 PTEST**	**50%**	**Fri 1/9/09**	**Thu 1/29/09**
362	COMS	S&B/DA RF1 - FAT/Business testing	50%	Fri 1/9/09	Thu 1/29/09
363	COMS	S&B/DA RF1 - Correct FAT Defects	50%	Tue 1/13/09	Fri 1/23/09
364	COMS	S&B/DA RF1 - FAT/business testing Complete	0%	Thu 1/29/09	Thu 1/29/09
365	**COMS**	**Migration S&B/DA Refactor 1**	**0%**	**Fri 1/30/09**	**Tue 2/3/09**
366	COMS	S&B/DA RF 1 - Generate MMCR	0%	Fri 1/30/09	Fri 1/30/09
367	COMS	S&B/DA RF 1 - Tag all components for initial iTEST Build	0%	Fri 1/30/09	Fri 1/30/09
368	COMS	S&B/DA RF 1 - Produce Bundle & Release Notes	0%	Mon 2/2/09	Tue 2/3/09
369	COMS	Deliver S&B/DA RF 1 - Migration to ITEST	0%	Tue 2/3/09	Tue 2/3/09
371	**COMS**	**CSI Supplemental/Refactoring**	**0%**	**Mon 2/2/09**	**Thu 4/23/09**
372	**COMS**	**CSI Release 7.0 (S&B & CMM Long Day-Short Day)**	**0%**	**Mon 2/2/09**	**Thu 4/23/09**
373	COMS	CSI 7.0 - Confirm Scope & Requirements	0%	Mon 2/2/09	Mon 3/2/09
374	COMS	CSI 7.0 - Code Framework	0%	Tue 3/3/09	Mon 3/30/09
375	COMS	CSI 7.0 - Code business logic	0%	Tue 3/3/09	Mon 3/30/09
376	COMS	CSI 7.0 - Generate Test Data	0%	Tue 3/3/09	Mon 3/30/09
377	COMS	CSI 7.0 - Code Integration of business logic & Framework (orchestration)	0%	Tue 3/3/09	Mon 3/30/09
378	COMS	CSI 7.0 - Code base complete	0%	Mon 3/30/09	Mon 3/30/09
379	**COMS**	**CSI Release 7.0 PTEST**	**0%**	**Tue 3/31/09**	**Mon 4/20/09**
380	COMS	CSI 7.0 - FAT/Business testing - cycle 1	0%	Tue 3/31/09	Mon 4/6/09
381	COMS	CSI 7.0 - Code drop - FAT/bug fixes	0%	Thu 4/2/09	Wed 4/15/09
382	COMS	CSI 7.0 - FAT/Business testing - cycle 2	0%	Thu 4/16/09	Mon 4/20/09
383	COMS	CSI 7.0 - FAT/business testing Complete	0%	Mon 4/20/09	Mon 4/20/09
384	**COMS**	**Migration CSI 7.0**	**0%**	**Tue 4/21/09**	**Thu 4/23/09**
385	COMS	CSI 7.0 - Generate MMCR	0%	Tue 4/21/09	Tue 4/21/09
386	COMS	CSI 7.0 - Tag all components for initial iTEST Build	0%	Tue 4/21/09	Tue 4/21/09
387	COMS	CSI 7.0 - Produce Bundle & Release Notes	0%	Wed 4/22/09	Thu 4/23/09
388	COMS	Deliver CSI 7.0 - Migration to ITEST	0%	Thu 4/23/09	Thu 4/23/09
390	COMS	COMS: Settlements & Billing / Data Agg / CSI Complete	0%	Thu 4/23/09	Thu 4/23/09
391	**COMS**	**COMS: S&B Integration Testing Support**	**12%**	**Mon 10/13/08**	**Wed 9/2/09**
392	**COMS**	**Integration Release 3.0**	**100%**	**Mon 10/13/08**	**Fri 12/19/08**
393	**COMS**	**Planning**	**100%**	**Mon 10/13/08**	**Fri 11/7/08**
394	**COMS**	**Infrastructure**	**100%**	**Mon 11/3/08**	**Fri 11/7/08**

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ID	Project Name	Task Name	% Complete	Start	Finish
395	COMS	Confirm IR Infrastructure in Place	100%	Mon 11/3/08	Fri 11/7/08
396	COMS	IR3 - Infrastructure Ready for Test	100%	Fri 11/7/08	Fri 11/7/08
397	**COMS**	**IR3 - Develop COMS Business Scenarios**	**100%**	**Mon 10/13/08**	**Fri 10/17/08**
398	COMS	IR3 - Define PreProcessing Activites	100%	Mon 10/13/08	Fri 10/17/08
399	COMS	IR3 - Define Post Processing Activities	100%	Mon 10/13/08	Fri 10/17/08
400	COMS	IR3 - COMS DAM Business Scnearios Defined	100%	Mon 10/13/08	Mon 10/13/08
401	**COMS**	**IR3 - Finalize Data Set to support Business Scenarios**	**100%**	**Mon 10/13/08**	**Fri 10/31/08**
402	COMS	Map Upstream Functional Capabilities to Bids/Inputs	100%	Mon 10/13/08	Fri 10/24/08
403	COMS	Map Downstream Functional Capabilities to Bill Determinants	100%	Mon 10/27/08	Tue 10/28/08
404	COMS	Generate Data Set to Support Functional Scenarios	100%	Wed 10/29/08	Fri 10/31/08
405	COMS	IR3 - Baselined Data Set Completed	100%	Fri 10/31/08	Fri 10/31/08
406	**COMS**	**Execution**	**100%**	**Mon 11/3/08**	**Fri 12/19/08**
407	**COMS**	**IR3 -Execute DAM Functional Scenarios**	**100%**	**Mon 11/3/08**	**Fri 12/19/08**
408	COMS	IR3 - Perform Initial Connectivity	100%	Mon 11/3/08	Fri 11/21/08
409	COMS	IR3 - Perform Pre-Processing Activites	100%	Mon 11/24/08	Fri 12/19/08
410	COMS	IR3 - Perfrom Post Processing Activites	100%	Mon 12/8/08	Fri 12/19/08
411	COMS	IR3 - Repair Integration Defects	100%	Wed 11/5/08	Fri 12/19/08
412	COMS	IR3 - Functional Scenarios Complete	100%	Fri 12/19/08	Fri 12/19/08
413	**COMS**	**S&B ITEST Support/Refactoring**	**1%**	**Mon 1/5/09**	**Wed 9/2/09**
414	COMS	S&B ITRF - Develop Refactored Code	5%	Mon 1/5/09	Mon 6/22/09
415	COMS	S&B ITRF - Perform FAT Test for Refactored Components	0%	Mon 1/19/09	Tue 9/1/09
416	COMS	S&B ITRF - Generate Test Data for Refactored Components	0%	Mon 1/19/09	Tue 9/1/09
417	COMS	S&B ITRF - Perform Regression Testing for Refactored Components	0%	Mon 2/9/09	Wed 9/2/09
418	COMS	S&B ITRF - Refactoring Complete	0%	Wed 9/2/09	Wed 9/2/09
419	**COMS**	**CSI ITEST Support/Refactoring**	**0%**	**Wed 4/15/09**	**Mon 7/27/09**
420	COMS	CSI ITRF - Develop General ITEST Refactored Code	0%	Fri 4/24/09	Mon 7/20/09
422	COMS	Receive MMS5: Relese from MMS	0%	Wed 4/15/09	Wed 4/15/09
424	COMS	CSI ITRF - MMS5 Refactoring	0%	Fri 4/24/09	Thu 5/21/09
425	COMS	CSI ITRF - Perform FAT Test for Refactored Components	0%	Fri 5/8/09	Mon 7/6/09
426	COMS	CSI ITRF - Generate Test Data for Refactored Components	0%	Fri 5/8/09	Mon 7/6/09
427	COMS	CSI ITRF - Perform Regression Testing for Refactored Components	0%	Mon 6/1/09	Mon 7/27/09
428	COMS	CSI ITRF - Refactoring Complete	0%	Mon 7/27/09	Mon 7/27/09
429	COMS	COMS: S&B Integration Testing Support Complete	0%	Wed 9/2/09	Wed 9/2/09
430	**COMS**	**COMS: S&B/Data Agg/ CSI Pre-Production Activities**	**0%**	**Thu 9/3/09**	**Tue 11/10/09**
431	**COMS**	**Documentation**	**0%**	**Thu 9/3/09**	**Tue 11/10/09**

ID	Project Name	Task Name	% Complete	Start	Finish
432	COMS	PPA - Develop S&B "As Built" Requirements	0%	Thu 9/3/09	Thu 9/24/09
433	COMS	PPA - Develop S&B "As Built" CSD/Detailed Design Documents	0%	Fri 9/25/09	Thu 10/22/09
434	COMS	PPA - Develop S&B "As Built" Functional Decompositions	0%	Fri 9/25/09	Thu 10/22/09
435	COMS	PPA - Develop Data Agg "As Built" Requirements	0%	Thu 9/3/09	Thu 9/24/09
436	COMS	PPA - Develop Data Agg "As Built" CSD/Detailed Design Documents	0%	Fri 9/25/09	Thu 10/22/09
437	COMS	PPA - Develop Data Agg "As Built" Functional Decompositions	0%	Fri 9/25/09	Thu 10/22/09
438	COMS	PPA - Develop CSI "As Built" Requirements	0%	Thu 9/3/09	Thu 9/24/09
439	COMS	PPA - Develop CSI "As Built" CSD/Detailed Design Documents	0%	Fri 9/25/09	Thu 10/22/09
440	COMS	PPA - Develop CSI "As Built" Functional Decompositions	0%	Fri 9/25/09	Thu 10/22/09
441	COMS	PPA - Develop COMS End-to-End Operational Ready regression Test Scripts	0%	Fri 10/23/09	Tue 11/10/09
442	COMS	PPA - Artifact Update Complete	0%	Tue 11/10/09	Tue 11/10/09
443	**COMS**	**COMS: Financial Transfer UI/Lodestar**	**58%**	**Mon 6/2/08**	**Tue 5/19/09**
444	COMS	Start for Master Schedulers	100%	Mon 6/2/08	Mon 6/2/08
445	**COMS**	**FT Artifacts**	**78%**	**Mon 6/2/08**	**Tue 3/31/09**
446	**COMS**	**FT Business Requirements**	**100%**	**Mon 6/2/08**	**Mon 9/22/08**
447	COMS	FT UI Requirements Completed	100%	Mon 6/2/08	Fri 6/13/08
448	COMS	Update FT UI Requirements	100%	Mon 8/18/08	Mon 9/22/08
449	COMS	Update FT UI Requirements Complete	100%	Fri 9/19/08	Fri 9/19/08
450	**COMS**	**FT Test Plans & Cases for UI & Lodestar**	**100%**	**Mon 6/2/08**	**Fri 10/17/08**
451	**COMS**	**FT Phase 1 Lodestar Piece**	**100%**	**Mon 6/2/08**	**Fri 6/27/08**
452	COMS	FT Phase 1 Lodestar Piece Detailed Test Cases	100%	Mon 6/2/08	Fri 6/27/08
453	COMS	FT Phase 1 Lodestar Piece Test Cases Completed	100%	Fri 6/27/08	Fri 6/27/08
454	**COMS**	**FT Phase 2 Gui Piece**	**100%**	**Mon 6/2/08**	**Fri 10/17/08**
455	COMS	FT Phase 2 GUI Piece Test Plan	100%	Mon 6/2/08	Mon 7/28/08
456	**COMS**	**FT Phase 2 GUI Piece Use Cases**	**100%**	**Tue 9/9/08**	**Mon 9/22/08**
457	COMS	FT Update Phase 2 GUI Use Cases	100%	Tue 9/9/08	Mon 9/22/08
458	COMS	FT Phase 2 GUI Use Cases Approved	100%	Mon 9/22/08	Mon 9/22/08
459	**COMS**	**FT Phase 2 GUI Test Cases**	**100%**	**Tue 9/23/08**	**Fri 10/17/08**
460	COMS	FT Update Phase 2 GUI Test Cases	100%	Tue 9/23/08	Fri 10/17/08
461	**COMS**	**FT Phase 2 GUI Test Scripts**	**100%**	**Tue 9/23/08**	**Fri 10/17/08**
462	COMS	FT Update Phase 2 GUI Test Scripts	100%	Tue 9/23/08	Fri 10/17/08
463	COMS	FT Test Plans & Cases for Phase 2 GUI & Phase 1 Lodestar Complete	100%	Fri 10/17/08	Fri 10/17/08
464	**COMS**	**FT Phase 2 GUI Functional Specification**	**47%**	**Tue 9/23/08**	**Thu 2/12/09**
465	COMS	FT Update Phase 2 Functional Specification	47%	Tue 9/23/08	Thu 2/12/09
466	COMS	FT Phase 2 Functional Specification Completed	0%	Thu 2/12/09	Thu 2/12/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
467	**COMS**	**FT Migration Control Documentation**	**0%**	**Wed 3/25/09**	**Tue 3/31/09**
468	COMS	FT Create Migration Control Document	0%	Wed 3/25/09	Tue 3/31/09
469	**COMS**	**FT Security Risk Assessment**	**100%**	**Tue 7/15/08**	**Tue 7/22/08**
470	COMS	FT Create App Dev Security Risk Assessment	100%	Tue 7/15/08	Mon 7/21/08
471	COMS	FT Approve Risk Assessment	100%	Tue 7/22/08	Tue 7/22/08
472	**COMS**	**FT Development**	**68%**	**Mon 6/2/08**	**Tue 3/24/09**
473	**COMS**	**FT Phase 2 GUI Internal Portal**	**50%**	**Thu 8/28/08**	**Tue 3/10/09**
474	COMS	FT Create Phase 2 GUI Internal Portal	90%	Thu 8/28/08	Tue 1/20/09
475	COMS	FT Create Phase 2 GUI Internal Roles	20%	Fri 10/3/08	Tue 1/27/09
476	**COMS**	**FT Commercial Operations**	**0%**	**Wed 1/28/09**	**Tue 3/10/09**
477	**COMS**	**FT Create Phase 2 GUI Production Support Documentation**	**0%**	**Wed 1/28/09**	**Tue 3/10/09**
478	COMS	FT Create Phase 2 GUI Operations Guide	0%	Wed 1/28/09	Tue 3/10/09
479	COMS	FT Phase 2 GUI Internal Portal Complete	0%	Tue 3/10/09	Tue 3/10/09
480	**COMS**	**FT Phase 1 Build & Code for Lodestar**	**100%**	**Mon 6/2/08**	**Mon 8/25/08**
481	COMS	FT Phase 1 Lodestar Metadata Changes for FT tables incorporated	100%	Mon 6/2/08	Mon 8/25/08
482	COMS	FT Phase 1 Lodestar Metadata Changes for FT tables incorporated Complete	100%	Mon 8/25/08	Mon 8/25/08
483	**COMS**	**FT Phase 2 GUI Build & Code**	**82%**	**Mon 8/25/08**	**Tue 3/24/09**
484	COMS	FT Phase 2 GUI Build Code	90%	Mon 8/25/08	Fri 1/30/09
485	COMS	FT Population of Bank Data into FT Lodestar Tables	0%	Wed 3/11/09	Tue 3/24/09
486	COMS	FT Complete Phase 2 GUI BuildCode	0%	Tue 3/24/09	Tue 3/24/09
487	COMS	FT Phase 2 GUI Development Complete	0%	Tue 3/24/09	Tue 3/24/09
488	**COMS**	**FT Testing**	**0%**	**Wed 3/11/09**	**Thu 4/23/09**
489	**COMS**	**FT Phase 1 unit/FAT Testing**	**0%**	**Wed 3/11/09**	**Thu 4/23/09**
490	COMS	FT Phase 1 Lodestar FAT Testing	0%	Wed 3/11/09	Thu 4/23/09
491	**COMS**	**Phase 2 GUI FAT Testing**	**0%**	**Wed 3/11/09**	**Tue 4/21/09**
492	COMS	FT Phase 2 GUI FAT Testing	0%	Wed 3/11/09	Tue 3/31/09
493	COMS	FT Phase 2 GUI Send CSV File to Financial Institute for Validation	0%	Wed 4/1/09	Tue 4/21/09
494	COMS	FT Complete FAT for Phase 1 Lodestar & Phase 2 GUI	0%	Tue 4/21/09	Tue 4/21/09
495	**COMS**	**FT Defect Correction & Break Fix Cycles**	**0%**	**Wed 3/25/09**	**Tue 5/19/09**
496	**COMS**	**FT Phase 1 Lodestar**	**0%**	**Wed 4/1/09**	**Tue 5/19/09**
497	COMS	FT Phase 2 Lodestar FAT migrations (every week on Friday as needed)	0%	Wed 4/1/09	Tue 4/28/09
498	COMS	FT Phase 1 Lodestar iTEST/EDS Migrations (every 2 weeks controlled by RM)	0%	Wed 4/22/09	Tue 5/19/09
499	COMS	Deliver FT Phase 1 Lodestar iTEST/EDS Migrations	0%	Tue 5/19/09	Tue 5/19/09
501	**COMS**	**FT Phase 2 GUI**	**0%**	**Wed 3/25/09**	**Tue 4/21/09**
502	COMS	FT Phase 2 GUI FAT Migrations (every 2 weeks as needed)	0%	Wed 3/25/09	Tue 4/21/09

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ID	Project Name	Task Name	% Complete	Start	Finish
503	COMS	FT Phase 2 GUI iTEST/EDS Migrations (every 8 weeks controlled by RM)	0%	Wed 3/25/09	Tue 4/21/09
504	COMS	Deliver FT Phase 2 GUI iTEST/EDS Migrations	0%	Tue 4/21/09	Tue 4/21/09
506	COMS	COMS: Financial Transfer Complete	0%	Tue 5/19/09	Tue 5/19/09
507	**COMS**	**COMS: FT Integration Test Suppport**	**0%**	**Wed 4/22/09**	**Mon 5/18/09**
508	**COMS**	**FT iTEST Testing**	**0%**	**Wed 4/22/09**	**Mon 5/18/09**
509	COMS	FT Migration Control & Release Management	0%	Wed 4/22/09	Mon 5/18/09
510	COMS	FT Business Verification	0%	Wed 4/22/09	Mon 5/18/09
511	COMS	FT Bug Fix Migrations	0%	Wed 4/22/09	Mon 5/18/09
512	**COMS**	**FT Security Testing**	**0%**	**Wed 4/22/09**	**Mon 5/18/09**
513	COMS	FT Security Test	0%	Wed 4/22/09	Tue 4/28/09
514	COMS	FT Security Approval	0%	Mon 5/18/09	Mon 5/18/09
515	COMS	COMS FT Integration Test Support Complete	0%	Mon 5/18/09	Mon 5/18/09
516	**COMS**	**COMS: Credit Monitoring & Management**	**60%**	**Mon 6/2/08**	**Wed 4/29/09**
517	COMS	Start	100%	Mon 6/2/08	Mon 6/2/08
518	**COMS**	**Artifacts**	**58%**	**Mon 6/2/08**	**Wed 4/1/09**
519	COMS	CMM Approval of Baseline 3 Credit NPRRs	100%	Mon 6/2/08	Tue 11/4/08
520	**COMS**	**CMM Requirements Document**	**79%**	**Mon 6/2/08**	**Thu 1/29/09**
521	**COMS**	**CMM Version 1.0**	**100%**	**Mon 6/2/08**	**Mon 8/4/08**
522	COMS	Credit Monitoring & Management - Requirements	100%	Mon 6/2/08	Mon 8/4/08
523	COMS	CMM Interface Requirements	100%	Mon 6/2/08	Mon 8/4/08
524	COMS	CMM Requirements 1.0 complete & posted	100%	Fri 8/1/08	Fri 8/1/08
525	**COMS**	**CMM Version 2.0**	**100%**	**Mon 8/4/08**	**Thu 8/7/08**
526	COMS	Credit Monitoring & Management - Requirements 2.0	100%	Mon 8/4/08	Thu 8/7/08
527	COMS	CMM Requirements 2.0 complete & posted	100%	Thu 8/7/08	Thu 8/7/08
528	**COMS**	**CMM Version 3.0 - NPRR True-Up**	**100%**	**Fri 8/8/08**	**Wed 12/3/08**
529	COMS	Credit Monitoring & Management - Requirements	100%	Fri 8/8/08	Fri 10/24/08
530	**COMS**	**CMM Custom Management Requirements**	**100%**	**Fri 8/8/08**	**Wed 12/3/08**
531	COMS	CMM - External Reports - Requirement Final	100%	Fri 8/8/08	Fri 10/10/08
532	COMS	CMM - Credit Exposure Adjustments - Requirement Final	100%	Fri 8/8/08	Wed 12/3/08
533	COMS	CMM - Credit Scoring - Requirement Final	100%	Fri 8/8/08	Fri 10/24/08
534	COMS	CMM - ACL Screens & Adjustments	100%	Fri 8/8/08	Fri 10/31/08
535	COMS	CMM - Bilateral Trade	100%	Fri 8/8/08	Fri 10/17/08
536	COMS	CMM - Interface Requirements True Up	100%	Fri 8/8/08	Mon 10/27/08
537	COMS	CMM 4.1 - Requirements Complete	100%	Wed 12/3/08	Wed 12/3/08
538	**COMS**	**CMM 4.2 - Requirements**	**6%**	**Thu 12/4/08**	**Wed 1/14/09**

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ID	Project Name	Task Name	% Complete	Start	Finish
539	COMS	CMM 4.2 - Run Exposure Calc	6%	Thu 12/4/08	Wed 1/14/09
540	COMS	CMM 4.2 - Request Collateral	6%	Thu 12/4/08	Wed 1/14/09
541	COMS	CMM 4.2 - Bug Fixes	6%	Thu 12/4/08	Wed 1/14/09
542	COMS	CMM - 4.2 Requirements complete	0%	Wed 1/14/09	Wed 1/14/09
543	**COMS**	**CMM 4.3 - Remaining Functions**	**0%**	**Fri 12/19/08**	**Thu 1/29/09**
544	COMS	CMM 4.3 - Perform Default Process	0%	Fri 12/19/08	Thu 1/29/09
545	COMS	CMM 4.3 - Receive Mantenence Entity Screen	0%	Fri 12/19/08	Thu 1/29/09
546	COMS	CMM 4.3 - Update Screen Validations	0%	Fri 12/19/08	Thu 1/29/09
547	COMS	CMM 4.3 - Bug Fixes	0%	Fri 12/19/08	Thu 1/29/09
548	COMS	CMM 4.3 - Requirements Complete	0%	Thu 1/29/09	Thu 1/29/09
549	COMS	CMM - Requirements 3.0 complete & posted	0%	Thu 1/29/09	Thu 1/29/09
550	**COMS**	**CMM CSD Document**	**100%**	**Fri 8/1/08**	**Fri 10/31/08**
551	**COMS**	**CMM - Version 1.0**	**100%**	**Fri 8/1/08**	**Fri 8/1/08**
552	COMS	CMM - Credit Monitoring & Management	100%	Fri 8/1/08	Fri 8/1/08
553	COMS	CMM - CSD 1.0 Complete & posted	100%	Fri 8/1/08	Fri 8/1/08
554	**COMS**	**CMM - Version 2.0**	**100%**	**Thu 8/7/08**	**Thu 8/7/08**
555	COMS	CMM - Credit Monitoring & Management	100%	Thu 8/7/08	Thu 8/7/08
556	COMS	CMM - CSD 2.0 Complete & Posted	100%	Thu 8/7/08	Thu 8/7/08
557	**COMS**	**CMM - Version 3.0**	**100%**	**Fri 8/15/08**	**Fri 10/31/08**
558	COMS	CMM - Credit Monitoring & Management Base	100%	Fri 8/15/08	Wed 9/3/08
559	**COMS**	**CMM - Custom Mangement (4.1, 4.2, 4.3)**	**100%**	**Mon 10/13/08**	**Fri 10/31/08**
560	COMS	CMM - External Reports	100%	Mon 10/13/08	Fri 10/17/08
561	COMS	CMM - Credit Exposure Adjustment	100%	Mon 10/27/08	Wed 10/29/08
562	COMS	CMM - Credit Scoring	100%	Mon 10/27/08	Mon 10/27/08
563	COMS	CMM - ACL Screens & Adjustments	100%	Fri 10/31/08	Fri 10/31/08
564	COMS	CMM - Bilateral Trade	100%	Mon 10/20/08	Fri 10/24/08
565	COMS	CMM - CSD 3.0 Complete & Posted	100%	Fri 10/31/08	Fri 10/31/08
566	**COMS**	**CMM - Detailed Designs**	**66%**	**Mon 8/4/08**	**Wed 3/11/09**
567	COMS	CMM Detailed Analysis & Design Requirements (DADs) 4.1	93%	Mon 8/4/08	Fri 12/19/08
568	COMS	CMM Detailed Analysis & Design Requirements (DADs) Phase II - 4.2	0%	Thu 1/15/09	Wed 2/11/09
569	COMS	CMM Detailed Analysis & Design Requirements (DADs) Phase III - 4.3	0%	Thu 2/12/09	Wed 3/11/09
570	COMS	CMM Detail Designs Complete	0%	Wed 3/11/09	Wed 3/11/09
571	**COMS**	**CMM - Testing Artifacts**	**61%**	**Mon 6/2/08**	**Thu 1/22/09**
572	**COMS**	**CMM Base Product Release**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
573	COMS	CMM - Test Plan	100%	Mon 6/2/08	Mon 6/2/08

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ID	Project Name	Task Name	% Complete	Start	Finish
574	COMS	CMM - Test Cases	100%	Mon 6/2/08	Mon 6/2/08
575	COMS	CMM - Test Scripts	100%	Mon 6/2/08	Mon 6/2/08
576	**COMS**	**CMM 4.1 Testing Artifacts**	**61%**	**Tue 8/26/08**	**Thu 1/22/09**
577	COMS	CMM - 4.1 Test Plan	100%	Tue 8/26/08	Tue 11/18/08
578	COMS	CMM - 4.1 Test Cases	50%	Mon 9/15/08	Wed 12/17/08
579	COMS	CMM - 4.1 Test Scripts	40%	Mon 9/15/08	Thu 1/22/09
580	COMS	CMM 4.1 Testing Artifacts Complete	0%	Wed 3/11/09	Wed 3/11/09
581	**COMS**	**CMM 4.2 Testing Artifacts**	**0%**	**Thu 1/15/09**	**Wed 2/18/09**
582	COMS	CMM - 4.2 Test Plan	0%	Thu 1/15/09	Wed 1/21/09
583	COMS	CMM - 4.2Test Cases	0%	Thu 1/22/09	Wed 2/18/09
584	COMS	CMM - 4.2 Test Scripts	0%	Thu 1/22/09	Wed 2/18/09
585	COMS	CMM 4.2 Testing Artifacts Complete	0%	Wed 2/18/09	Wed 2/18/09
586	**COMS**	**CMM 4.3 Custom Management Release Testing Artifacts**	**0%**	**Thu 3/12/09**	**Wed 4/1/09**
587	COMS	CMM - 4.3 Test Plan	0%	Thu 3/12/09	Wed 3/18/09
588	COMS	CMM - 4.3 Test Cases	0%	Thu 3/19/09	Wed 4/1/09
589	COMS	CMM - 4.3 Test Scripts	0%	Thu 3/19/09	Wed 4/1/09
590	COMS	CMM 4.3 Testing Artifacts Complete	0%	Wed 4/1/09	Wed 4/1/09
591	**COMS**	**Operations Artifacts**	**13%**	**Fri 8/8/08**	**Mon 3/30/09**
592	COMS	Operations Guide (IT)	11%	Fri 8/8/08	Mon 3/30/09
593	COMS	Maintenance Guide (IT)	11%	Fri 8/8/08	Mon 3/30/09
594	COMS	Business Process (business)	20%	Fri 10/3/08	Mon 1/12/09
595	COMS	Operations Artifacts complete	0%	Mon 3/30/09	Mon 3/30/09
596	**COMS**	**Infrastructure**	**100%**	**Mon 6/2/08**	**Tue 10/21/08**
597	**COMS**	**COMS: Credit Monitoring & Management**	**100%**	**Mon 6/2/08**	**Tue 10/21/08**
598	COMS	Development environment ready	100%	Mon 6/2/08	Mon 6/2/08
599	COMS	iTEST environment ready	100%	Mon 6/2/08	Mon 6/2/08
600	COMS	EDS/Production environment ready	100%	Mon 6/2/08	Tue 10/21/08
601	**COMS**	**Development & Construction**	**50%**	**Mon 6/2/08**	**Wed 4/22/09**
602	COMS	CMM Base Product Release (Includes Pre-FAT)	100%	Mon 6/2/08	Fri 7/11/08
603	**COMS**	**CMM Release 4.1**	**74%**	**Mon 11/3/08**	**Fri 12/19/08**
604	COMS	CMM - 4.1 External Reports	50%	Mon 11/3/08	Fri 12/19/08
605	COMS	CMM - 4.1 Credit Exposure Component Adjustment	90%	Mon 11/3/08	Fri 12/19/08
606	COMS	CMM - 4.1 Credit Scoring	90%	Mon 11/3/08	Fri 12/19/08
607	COMS	CMM - 4.1 ACL Screen & Adjustment	66%	Mon 11/3/08	Fri 12/19/08
608	COMS	CMM - 4.1 Bilateral Trade	75%	Mon 11/3/08	Fri 12/19/08

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ID	Project Name	Task Name	% Complete	Start	Finish
609	COMS	CMM 4.1 Development Complete	0%	Fri 12/19/08	Fri 12/19/08
610	**COMS**	**CMM Release 4.2**	**0%**	**Thu 2/12/09**	**Wed 3/25/09**
611	COMS	CMM - 4.2 Bug Fixes	0%	Thu 2/12/09	Wed 3/25/09
612	COMS	CMM - 4.2 Run Exposure Calc	0%	Thu 2/12/09	Wed 3/25/09
613	COMS	CMM - 4.2 Request Collateral	0%	Thu 2/12/09	Wed 3/25/09
614	COMS	CMM - 4.2 Development Complete	0%	Wed 3/25/09	Wed 3/25/09
615	**COMS**	**CMM Release 4.3**	**0%**	**Thu 3/12/09**	**Wed 4/22/09**
616	COMS	CMM - 4.3 Refactoring & Bug Fixes	0%	Thu 3/12/09	Wed 4/22/09
617	COMS	CMM 4.3 Development Complete	0%	Wed 4/22/09	Wed 4/22/09
618	**COMS**	**CMM/CSI Integration Release Development**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
619	**COMS**	**Release 3.1 - ROME developed Interfaces (Import / Export routines & control table code)**	**100%**	**Mon 6/2/08**	**Mon 6/2/08**
620	COMS	CMM -> CRR: CRR ACL	100%	Mon 6/2/08	Mon 6/2/08
621	COMS	CRR -> CMM: CRR ACL Accepted	100%	Mon 6/2/08	Mon 6/2/08
622	COMS	CRR -> CMM: CRR Bilateral Trade Request	100%	Mon 6/2/08	Mon 6/2/08
623	COMS	CMM -> CRR: CRR Bilateral Trade Response	100%	Mon 6/2/08	Mon 6/2/08
624	COMS	Excel -> CMM: CRR Calendar Loads	100%	Mon 6/2/08	Mon 6/2/08
625	COMS	CMM ˜ MMS: DAM Calculated ACL	100%	Mon 6/2/08	Mon 6/2/08
626	COMS	CSI -> CMM: DAM ACL received indicator	100%	Mon 6/2/08	Mon 6/2/08
627	COMS	CMM ˜ REG: LE Creditworthy Flag	100%	Mon 6/2/08	Mon 6/2/08
628	COMS	Reg -> CMM: Entity Details	100%	Mon 6/2/08	Mon 6/2/08
629	COMS	Reg -> CMM: Entity Address	100%	Mon 6/2/08	Mon 6/2/08
630	COMS	Reg -> CMM: Entity Contacts	100%	Mon 6/2/08	Mon 6/2/08
631	COMS	Reg -> CMM: Entity Bank Accounts	100%	Mon 6/2/08	Mon 6/2/08
632	**COMS**	**CMM - External Report Infrastructure**	**100%**	**Tue 12/2/08**	**Thu 12/4/08**
633	COMS	Report ID Created	100%	Tue 12/2/08	Thu 12/4/08
634	COMS	MIR DB configuration	100%	Tue 12/2/08	Thu 12/4/08
635	COMS	MID Configuration	100%	Tue 12/2/08	Thu 12/4/08
636	COMS	Report Folders Created	100%	Tue 12/2/08	Thu 12/4/08
637	COMS	External Reports Development Completed	100%	Thu 12/4/08	Thu 12/4/08
638	COMS	CMM Development & Unit Test Complete	0%	Wed 4/22/09	Wed 4/22/09
639	**COMS**	**CMM - FAT Testing Phases**	**85%**	**Mon 6/2/08**	**Wed 4/29/09**
640	COMS	CMM Base Product Release FAT	100%	Mon 6/2/08	Mon 6/2/08
641	COMS	CMM Custom Calculation Release FAT	100%	Mon 6/2/08	Mon 6/2/08
642	**COMS**	**CMM Integration Testing Phases**	**100%**	**Mon 6/2/08**	**Fri 10/3/08**
643	**COMS**	**CMM 3.1 - ROME developed Interfaces**	**100%**	**Mon 6/2/08**	**Wed 9/24/08**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
644	COMS	Unit Testing (was included in Development time)	100%	Mon 6/2/08	Mon 6/2/08
645	COMS	FAT Testing	100%	Mon 6/2/08	Wed 9/24/08
646	COMS	Deliver CMM - 3.1 to iTest	100%	Mon 9/22/08	Mon 9/22/08
648	**COMS**	**CMM 3.2 - S&B, CSI - ERCOT developed interfaces**	**100%**	**Wed 10/1/08**	**Fri 10/3/08**
649	COMS	CMM - 3.2 Unit Testing (also including pre-FAT)	100%	Wed 10/1/08	Fri 10/3/08
650	COMS	Deliver CMM - 3.2 to iTest	100%	Fri 10/3/08	Fri 10/3/08
652	**COMS**	**CMM - FAT Testing Custom Management**	**0%**	**Mon 1/5/09**	**Wed 4/29/09**
653	**COMS**	**Release 4.1 FAT**	**0%**	**Mon 1/5/09**	**Fri 1/9/09**
654	COMS	CMM - 4.1 Unit Testing (also including pre-FAT)	0%	Mon 1/5/09	Fri 1/9/09
655	COMS	Deliver CMM - 4.1 to EDW	0%	Fri 1/9/09	Fri 1/9/09
657	COMS	Deliver CMM - 4.1 to iTest	0%	Fri 1/9/09	Fri 1/9/09
659	**COMS**	**Release 4.2 FAT**	**0%**	**Thu 3/26/09**	**Wed 4/1/09**
660	COMS	CMM - 4.2 Unit Testing (also including pre-FAT)	0%	Thu 3/26/09	Wed 4/1/09
661	COMS	Deliver CMM - 4.2 to iTest	0%	Wed 4/1/09	Wed 4/1/09
663	**COMS**	**Release 4.3 FAT**	**0%**	**Thu 4/23/09**	**Wed 4/29/09**
664	COMS	CMM - 4.3 Unit Testing (also including pre-FAT)	0%	Thu 4/23/09	Wed 4/29/09
665	COMS	Deliver CMM - 4.3 to iTEST	0%	Wed 4/29/09	Wed 4/29/09
667	COMS	CMM - FAT Complete Custom Management	0%	Wed 4/29/09	Wed 4/29/09
668	COMS	CMM Project END	0%	Wed 4/29/09	Wed 4/29/09
669	**COMS**	**COMS: Registration / Disputes**	**79%**	**Mon 6/2/08**	**Mon 3/23/09**
670	**COMS**	**COMS REG Phase 4 / Disputes Phase 2**	**100%**	**Mon 6/2/08**	**Mon 12/15/08**
671	COMS	COMS REG 4/DISP 2: Start Date for Master Schedulers	100%	Mon 6/2/08	Mon 6/2/08
672	**COMS**	**COMS REG 4/DISP 2: PLANNING**	**100%**	**Mon 6/2/08**	**Mon 9/8/08**
673	**COMS**	**COMS REG 4/DISP 2: PLANNING PHASE**	**100%**	**Mon 6/2/08**	**Sat 9/6/08**
674	**COMS**	**COMS REG 4/DISP 2: BUSINESS REQUIREMENTS**	**100%**	**Mon 6/2/08**	**Thu 7/3/08**
675	COMS	COMS REG 4/DISP 2: Gather / Document Deferred defects & Requirements from prev phases	100%	Mon 6/2/08	Fri 6/27/08
676	COMS	COMS REG 4/DISP 2: Review & Approve included business requirements	100%	Mon 6/30/08	Thu 7/3/08
677	COMS	COMS REG 4/DISP 2: Business Requirements Complete	100%	Thu 7/3/08	Thu 7/3/08
678	**COMS**	**COMS REG 4/DISP 2: DETAILED DESIGN / SOFTWARE ARCHITECTURE**	**100%**	**Mon 6/2/08**	**Mon 7/28/08**
679	COMS	COMS REG 4/DISP 2: Create & Update Detail Design / Software Architecture Document	100%	Mon 6/2/08	Thu 7/24/08
680	COMS	COMS REG 4/DISP 2: Submit Detail Design / Software Architecture Document for approval	100%	Fri 7/25/08	Mon 7/28/08
681	COMS	COMS REG 4/DISP 2: Detail Design / Software Architecture Document Complete	100%	Mon 7/28/08	Mon 7/28/08
682	**COMS**	**COMS REG 4/DISP 2: TEST PLAN**	**100%**	**Wed 7/30/08**	**Tue 8/5/08**
683	COMS	COMS REG 4/DISP 2: Create & Update Test Plan	100%	Wed 7/30/08	Mon 8/4/08
684	COMS	COMS REG 4/DISP 2: Review & Approve Test Plan	100%	Fri 8/1/08	Tue 8/5/08

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ID	Project Name	Task Name	% Complete	Start	Finish
685	COMS	COMS REG 4/DISP 2: Test Plan Complete	100%	Sat 9/6/08	Sat 9/6/08
686	COMS	COMS REG 4/DISP 2: Planning Complete	100%	Mon 9/8/08	Mon 9/8/08
687	**COMS**	**COMS REG 4/DISP 2: EXECUTION**	**100%**	**Mon 6/2/08**	**Mon 12/15/08**
688	**COMS**	**COMS REG 4/DISP 2: EXECUTION & CONTROL PHASE**	**100%**	**Mon 6/2/08**	**Mon 12/15/08**
689	**COMS**	**COMS REG 4/DISP 2: DEVELOPMENT**	**100%**	**Mon 6/2/08**	**Mon 9/15/08**
690	**COMS**	**COMS REG 4/DISP 2: DEVELOPMENT CODING**	**100%**	**Mon 6/2/08**	**Tue 8/12/08**
691	COMS	COMS REG 4/DISP 2: Code & Configure System Changes (Siebel)	100%	Mon 6/2/08	Mon 8/11/08
692	COMS	COMS REG 4/DISP 2: Extract tables build for Disputes (meta data changes)	100%	Mon 6/2/08	Tue 8/12/08
693	COMS	COMS REG 4/DISP 2: Development Coding Complete	100%	Mon 8/11/08	Mon 8/11/08
694	**COMS**	**COMS REG 4/DISP 2: DEVELOPMENT UNIT TESTING COMPLETE**	**100%**	**Mon 6/2/08**	**Fri 8/15/08**
695	COMS	COMS REG 4/DISP 2: Create Unit Test Scripts	100%	Mon 6/2/08	Mon 8/11/08
696	COMS	COMS REG 4/DISP 2: Execute unit Test Scripts	100%	Mon 8/11/08	Fri 8/15/08
697	COMS	COMS REG 4/DISP 2: Development Unit Testing Complete	100%	Mon 8/18/08	Mon 8/18/08
698	**COMS**	**COMS REG 4/DISP 2: APPLICATION CODE RESYNCH IN DEVELOPMENT FOR DELIVERY**	**100%**	**Mon 8/18/08**	**Tue 8/19/08**
699	COMS	COMS REG 4/DISP 2: Resynch Nodal development & Zonal build environment code for delivery	100%	Mon 8/18/08	Tue 8/19/08
700	COMS	COMS REG 4/DISP 2: Application Code Zonal Nodal Resynch development complete	100%	Tue 8/19/08	Tue 8/19/08
701	**COMS**	**COMS REG 4/DISP 2: PRODUCT TESTING APPLICATION**	**100%**	**Tue 8/19/08**	**Fri 8/22/08**
702	COMS	COMS REG 4/DISP 2: Create Product Testing Scripts	100%	Tue 8/19/08	Wed 8/20/08
703	COMS	COMS REG 4/DISP 2: Execute Product Test Scripts	100%	Wed 8/20/08	Fri 8/22/08
704	COMS	COMS REG 4/DISP 2: Product Test Application complete	100%	Fri 8/22/08	Fri 8/22/08
705	**COMS**	**COMS REG 4/DISP 2: MIGRATION CONTROL DOCUMENT(S)**	**100%**	**Fri 8/22/08**	**Mon 9/15/08**
706	COMS	COMS REG 4/DISP 2: Create Manual Migration Control Request (MMCR) for Siebel Development	100%	Fri 8/22/08	Fri 8/22/08
707	COMS	COMS REG 4/DISP 2: Review & Approve MMCR for Siebel Development	100%	Mon 8/25/08	Mon 8/25/08
708	COMS	COMS REG 4/DISP 2: Create Manual Migration Control Request (MMCR) for Tibco Development	100%	Fri 9/12/08	Fri 9/12/08
709	COMS	COMS REG 4/DISP 2: Review & Approve MMCR for Tibco Development	100%	Mon 9/15/08	Mon 9/15/08
710	COMS	COMS REG 4/DISP 2: Manual Migration Control Request (MMCR) Complete	100%	Mon 9/15/08	Mon 9/15/08
711	COMS	COMS REG 4/DISP 2: Development Complete	100%	Mon 9/15/08	Mon 9/15/08
712	**COMS**	**COMS REG 4/DISP 2: TEST PLANNING**	**100%**	**Mon 6/2/08**	**Fri 10/3/08**
713	**COMS**	**COMS REG 4/DISP 2: FAT & INTEGRATION TEST CASES**	**100%**	**Tue 6/10/08**	**Fri 10/3/08**
714	**COMS**	**COMS REG 4/DISP 2: INTEGRATION (Registration to S&B) TEST CASES**	**100%**	**Tue 6/10/08**	**Fri 9/26/08**
715	COMS	COMS REG 4/DISP 2: Create Integration Test Case (INT-Common Services)	100%	Tue 6/10/08	Mon 8/4/08
716	COMS	COMS REG 4/DISP 2: Create Integration Test Cases (INT-SNB MP)	100%	Tue 6/10/08	Mon 8/4/08
717	COMS	COMS REG 4/DISP 2: Create Integration Test Cases (INT-SNB RES)	100%	Tue 6/10/08	Mon 8/4/08
718	COMS	COMS REG 4/DISP 2: Create Integration Test Cases (INT - TIBCO MP)	100%	Tue 6/10/08	Mon 8/4/08
719	COMS	COMS REG 4/DISP 2: Create Integration Test Cases (INT - TIBCO RES)	100%	Tue 6/10/08	Mon 8/4/08

ID	Project Name	Task Name	% Complete	Start	Finish
720	COMS	COMS REG 4/DISP 2: Business Review Integration Test Cases	100%	Tue 8/5/08	Fri 9/26/08
721	COMS	COMS REG 4/DISP 2: Integration Test Cases Complete	100%	Fri 9/26/08	Fri 9/26/08
722	**COMS**	**COMS REG 4/DISP 2: FAT (Registraiton & Disputes) TEST CASES**	**100%**	**Tue 6/10/08**	**Fri 10/3/08**
723	COMS	COMS REG 4/DISP 2: Create FAT Test Cases	100%	Tue 6/10/08	Mon 8/4/08
724	COMS	COMS REG 4/DISP 2: Create EIS Test Cases	100%	Tue 6/10/08	Fri 8/8/08
725	COMS	COMS REG 4/DISP 2: Business Review FAT Test Cases	100%	Mon 8/11/08	Fri 10/3/08
726	COMS	COMS REG 4/DISP 2: FAT Test Cases Complete	100%	Fri 10/3/08	Fri 10/3/08
727	**COMS**	**COMS REG 4/DISP 2: REGRESSION (FAT & INTEGRATION) TEST CASES**	**100%**	**Tue 6/10/08**	**Fri 9/26/08**
728	COMS	COMS REG 4/DISP 2: Create SBL Main Module Regression Test Cases	100%	Tue 6/10/08	Mon 8/4/08
729	COMS	COMS REG 4/DISP 2: Business Review Regression Test Cases	100%	Tue 8/5/08	Fri 9/26/08
730	COMS	COMS REG 4/DISP 2: Regression Test Cases Complete	100%	Fri 9/26/08	Fri 9/26/08
731	COMS	COMS REG 4/DISP 2: FAT & INTEGRATION TEST CASES Complete	100%	Fri 9/26/08	Fri 9/26/08
732	**COMS**	**COMS REG 4/DISP 2: TEST PLAN (FAT & INTEGRATION)**	**100%**	**Mon 6/2/08**	**Mon 8/4/08**
733	COMS	COMS REG 4/DISP 2: Review & Update Test Plan	100%	Mon 6/2/08	Fri 8/1/08
734	COMS	COMS REG 4/DISP 2: Submit Test Plan for Review & Approval	100%	Mon 8/4/08	Mon 8/4/08
735	COMS	COMS REG 4/DISP 2: Test Plan Complete	100%	Mon 8/4/08	Mon 8/4/08
736	**COMS**	**COMS REG 4/DISP 2: FAT & INTEGRATION TEST SCRIPT DEVELOPMENT**	**100%**	**Tue 8/5/08**	**Fri 10/3/08**
737	**COMS**	**COMS REG 4/DISP 2: INTEGRATION (Registration to S&B)**	**100%**	**Tue 8/5/08**	**Fri 10/3/08**
738	COMS	COMS REG 4/DISP 2: Create Integration Test Scripts (INT-Common Services)	100%	Tue 8/5/08	Fri 10/3/08
739	COMS	COMS REG 4/DISP 2: Create Integration Test Scripts (INT-SNB MP)	100%	Tue 8/5/08	Fri 10/3/08
740	COMS	COMS REG 4/DISP 2: Create Integration Test Scripts (INT-SNB RES)	100%	Tue 8/5/08	Fri 10/3/08
741	COMS	COMS REG 4/DISP 2: Create Integration Test Scripts (INT - TIBCO MP)	100%	Tue 8/5/08	Fri 10/3/08
742	COMS	COMS REG 4/DISP 2: Create Integration Test Scripts (INT - TIBCO RES)	100%	Tue 8/5/08	Fri 10/3/08
743	COMS	COMS REG 4/DISP 2: Business Review Integration Test Scripts	100%	Tue 8/5/08	Fri 10/3/08
744	COMS	COMS REG 4/DISP 2: Integration Test Scripts Complete	100%	Fri 10/3/08	Fri 10/3/08
745	**COMS**	**COMS REG 4/DISP 2: FAT (Registraiton & Disputes) SCRIPTS**	**100%**	**Tue 8/5/08**	**Fri 10/3/08**
746	COMS	COMS REG 4/DISP 2: Create FAT Test Scripts	100%	Tue 8/5/08	Fri 10/3/08
747	COMS	COMS REG 4/DISP 2: Create EIS Test Scripts	100%	Mon 8/11/08	Fri 8/22/08
748	COMS	COMS REG 4/DISP 2: Business Review FAT Test Scripts	100%	Tue 8/5/08	Fri 10/3/08
749	COMS	COMS REG 4/DISP 2: FAT Test Scripts Complete	100%	Fri 10/3/08	Fri 10/3/08
750	**COMS**	**COMS REG 4/DISP 2: REGRESSION (FAT & INTEGRATION) TEST SCRIPTS**	**100%**	**Tue 8/5/08**	**Fri 10/3/08**
751	COMS	COMS REG 4/DISP 2: Create Main Module Regression Test Scripts	100%	Tue 8/5/08	Fri 10/3/08
752	COMS	COMS REG 4/DISP 2: Business Review Regression Test Scripts	100%	Tue 8/5/08	Fri 10/3/08
753	COMS	COMS REG 4/DISP 2: Regression Test Scripts Complete	100%	Fri 10/3/08	Fri 10/3/08
754	COMS	COMS REG 4/DISP 2: Test Planning Complete	100%	Fri 10/3/08	Fri 10/3/08

ID	Project Name	Task Name	% Complete	Start	Finish
755	**COMS**	**COMS REG 4/DISP 2: ZONAL ITEST MIGRATION**	**100%**	**Tue 8/26/08**	**Wed 9/17/08**
756	COMS	COMS REG 4/DISP 2: Perform Migration to ZONAL ITEST (Siebel)	100%	Tue 8/26/08	Tue 8/26/08
757	COMS	COMS REG 4/DISP 2: Perform Migration to ZONAL ITEST (EIP/Common Services/L* DB Objects)	100%	Tue 9/16/08	Wed 9/17/08
758	COMS	Deliver COMS REG 4/DISP 2: Migration to ZONAL ITEST	100%	Wed 9/17/08	Wed 9/17/08
760	**COMS**	**COMS REG 4/DISP 2: TESTING**	**100%**	**Wed 8/27/08**	**Tue 12/9/08**
761	**COMS**	**COMS REG 4/DISP 2: INTEGRATION TEST**	**100%**	**Thu 9/18/08**	**Tue 12/9/08**
762	COMS	COMS REG 4/DISP 2: Execute Integration Tests for Int-Common Services	100%	Mon 11/3/08	Wed 11/19/08
763	COMS	COMS REG 4/DISP 2: Execute Integration Tests for INT-SNB MP	100%	Thu 9/18/08	Tue 12/9/08
764	COMS	COMS REG 4/DISP 2: Execute Integration Tests for INT-SNB RES	100%	Thu 9/18/08	Tue 12/2/08
765	COMS	COMS REG 4/DISP 2: Execute Integration Tests for INT-TIBCO MP	100%	Thu 9/18/08	Tue 12/9/08
766	COMS	COMS REG 4/DISP 2: Execute Integration Tests for INT-TIBCO RES	100%	Thu 9/18/08	Tue 12/9/08
767	COMS	COMS REG 4/DISP 2: Integration Tests Complete	100%	Tue 12/9/08	Tue 12/9/08
768	**COMS**	**COMS REG 4/DISP 2: FAT TEST**	**100%**	**Wed 8/27/08**	**Mon 12/8/08**
769	COMS	COMS REG 4/DISP 2: FAT Testing eService	100%	Thu 9/18/08	Fri 11/7/08
770	COMS	COMS REG 4/DISP 2: FAT Testing eEnergy	100%	Thu 9/18/08	Mon 12/8/08
771	COMS	COMS REG 4/DISP 2: FAT Testing EIS Changes	100%	Wed 8/27/08	Mon 10/13/08
772	COMS	COMS REG 4/DISP 2: FAT Testing Complete	100%	Mon 12/8/08	Mon 12/8/08
773	**COMS**	**COMS REG 4/DISP 2: REGRESSION TEST**	**100%**	**Thu 9/18/08**	**Tue 12/9/08**
774	COMS	COMS REG 4/DISP 2: Regression Test main Module	100%	Thu 9/18/08	Tue 12/9/08
775	COMS	COMS REG 4/DISP 2: Regression Test Complete	100%	Tue 12/9/08	Tue 12/9/08
776	COMS	COMS REG 4/DISP 2: Testing Complete	100%	Tue 12/9/08	Tue 12/9/08
777	**COMS**	**COMS REG 4/DISP 2: APPLICATION DEFECT RESOLUTION**	**100%**	**Thu 9/18/08**	**Thu 12/4/08**
778	COMS	COMS REG 4/DISP 2: Analyze & Develop defect solutions	100%	Thu 9/18/08	Thu 12/4/08
779	COMS	COMS REG 4/DISP 2: Migrate defect resolutions Weekly	100%	Thu 9/18/08	Thu 12/4/08
780	COMS	COMS REG 4/DISP 2: Defect Migrations Complete	100%	Thu 12/4/08	Thu 12/4/08
781	**COMS**	**COMS REG 4/DISP 2: "AS-BUILT" SOFTWARE ARCHITECTURE**	**100%**	**Thu 9/18/08**	**Tue 11/25/08**
782	COMS	COMS REG 4/DISP 2: Update As Built Software Architecutre Document	100%	Thu 9/18/08	Tue 11/25/08
783	COMS	COMS REG 4/DISP 2: As Built Software Architecture Document Updates Complete	100%	Tue 11/25/08	Tue 11/25/08
784	**COMS**	**COMS REG 4/DISP 2: OPERATIONAL & BUSINESS DOCUMENTATION**	**100%**	**Tue 9/2/08**	**Thu 12/11/08**
785	COMS	COMS REG 4/DISP 2: Create Operational & Business Support Document	100%	Tue 9/2/08	Thu 12/11/08
786	COMS	COMS REG 4/DISP 2: NPRR078 Documents Updated (Req/CSD as needed)	100%	Thu 12/11/08	Thu 12/11/08
787	COMS	COMS REG 4/DISP 2: Operational & Business Support Document Complete	100%	Thu 12/11/08	Thu 12/11/08
788	**COMS**	**COMS REG 4/DISP 2: PRODUCTION MIGRATION PLANNING**	**100%**	**Mon 12/8/08**	**Wed 12/10/08**
789	COMS	COMS REG 4/DISP 2: Create Production Migration Plan	100%	Mon 12/8/08	Wed 12/10/08
790	COMS	COMS REG 4/DISP 2: Production Migration Plan Complete	100%	Wed 12/10/08	Wed 12/10/08

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ID	Project Name	Task Name	% Complete	Start	Finish
791	**COMS**	**COMS REG 4/DISP 2: IMPLEMENTATION TO PRODUCTION**	**100%**	**Thu 12/4/08**	**Mon 12/15/08**
792	**COMS**	**COMS REG 4/DISP 2: PRE-PRODUCTION RELEASE COORDINATION**	**100%**	**Thu 12/4/08**	**Wed 12/10/08**
793	COMS	COMS REG 4/DISP 2: Meeting Production Migration Plan Review	100%	Tue 12/9/08	Wed 12/10/08
794	COMS	COMS REG 4/DISP 2: Create Market Notification	100%	Thu 12/4/08	Thu 12/4/08
795	COMS	COMS REG 4/DISP 2: Pre-Production Release Coordination activities complete	100%	Wed 12/10/08	Wed 12/10/08
796	**COMS**	**COMS REG 4/DISP 2: PRODUCTION MIGRATION**	**100%**	**Thu 12/4/08**	**Mon 12/15/08**
797	COMS	COMS REG 4/DISP 2: Create Change Request	100%	Thu 12/4/08	Thu 12/4/08
798	COMS	COMS REG 4/DISP 2: Submit Change Request to CCM Coordinator	100%	Thu 12/4/08	Thu 12/4/08
799	COMS	COMS REG 4/DISP 2: Change Request Approved	100%	Wed 12/10/08	Wed 12/10/08
800	COMS	COMS REG 4/DISP 2: Perform Production Migration	100%	Sat 12/13/08	Sat 12/13/08
801	COMS	COMS REG 4/DISP 2: Perform Production Verification	100%	Sat 12/13/08	Sun 12/14/08
802	COMS	COMS REG 4/DISP 2: Perform Systems Stabilization	100%	Mon 12/15/08	Mon 12/15/08
803	COMS	COMS REG 4/DISP 2: Migration Complete: Go Live	100%	Sun 12/14/08	Sun 12/14/08
804	COMS	COMS REG 4/DISP 2: Production "Zonal" & Stabilization Complete	100%	Mon 12/15/08	Mon 12/15/08
805	**COMS**	**COMS REG Phase 5 / Disputes Phase 3 (Refactoring)**	**15%**	**Wed 9/17/08**	**Mon 3/23/09**
806	**COMS**	**COMS REG 5/DISP 3: PLANNING**	**40%**	**Wed 9/17/08**	**Fri 1/16/09**
807	**COMS**	**COMS REG 5/DISP 3: PLANNING PHASE**	**40%**	**Wed 9/17/08**	**Fri 1/16/09**
808	**COMS**	**COMS REG 5/DISP 3: REFACTORING REQUIREMENTS UPDATES (FOR INTEGRATION WITH SYNCH SYST**	**45%**	**Wed 9/17/08**	**Tue 1/6/09**
809	COMS	COMS REG 5/DISP 3: Define Siebel Refactoring Changes for MMS Integration	76%	Wed 9/17/08	Mon 1/5/09
810	COMS	COMS REG 5/DISP 3: Define Siebel Refactoring Changes for MPIM Role Configuraiton	67%	Mon 11/17/08	Mon 1/5/09
811	COMS	COMS REG 5/DISP 3: Define Other Siebel Refactoring Changes for Integration-FINAL delivery phase of Reg	20%	Mon 11/3/08	Mon 1/5/09
812	COMS	COMS REG 5/DISP 3: Define Siebel Refactoring Changes to Push Contacts to MPIM from Siebel (no more d	20%	Mon 11/3/08	Mon 1/5/09
813	COMS	COMS REG 5/DISP 3: Define Additional Refactoring Change needs for Integration with Synch Systens - Def	20%	Mon 11/3/08	Mon 1/5/09
814	COMS	COMS REG 5/DISP 3: Submit Refactoring Business Requirements Document for Approval	0%	Tue 1/6/09	Tue 1/6/09
815	COMS	COMS REG 5/DISP 3: Refactoring Business Requirements Complete	0%	Tue 1/6/09	Tue 1/6/09
816	**COMS**	**COMS REG 5/DISP 3: DETAILED DESIGN / SOFTWARE ARCHITECTURE**	**0%**	**Mon 12/15/08**	**Fri 1/16/09**
817	COMS	COMS REG 5/DISP 3: Create & Update Detail Design / Software Architecture Document	0%	Mon 12/15/08	Thu 1/15/09
818	COMS	COMS REG 5/DISP 3: Submit Detail Design / Software Architecture Document for approval	0%	Fri 1/16/09	Fri 1/16/09
819	COMS	COMS REG/DISPDetail Design / Software Architecture Document Complete	0%	Fri 1/16/09	Fri 1/16/09
820	**COMS**	**COMS REG 5/DISP 3: TEST PLAN**	**0%**	**Wed 1/7/09**	**Thu 1/15/09**
821	COMS	COMS REG 5/DISP 3: Create & Update Test Plan	0%	Wed 1/7/09	Tue 1/13/09
822	COMS	COMS REG 5/DISP 3: Review & Approve Test Plan	0%	Wed 1/14/09	Thu 1/15/09
823	COMS	COMS REG 5/DISP 3: Test Plan Complete	0%	Thu 1/15/09	Thu 1/15/09
824	**COMS**	**COMS REG 5/DISP 3: EXECUTION**	**0%**	**Mon 12/15/08**	**Mon 3/23/09**
825	**COMS**	**COMS REG 5/DISP 3: EXECUTION & CONTROL PHASE**	**0%**	**Mon 12/15/08**	**Mon 3/23/09**

Wed 1/14/09

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ID	Project Name	Task Name	% Complete	Start	Finish
826	**COMS**	**COMS REG 5/DISP 3: DEVELOPMENT**	**0%**	**Mon 12/15/08**	**Thu 1/22/09**
827	**COMS**	**COMS REG 5/DISP 3: DEVELOPMENT CODING**	**0%**	**Mon 12/15/08**	**Thu 1/15/09**
828	COMS	COMS REG 5/DISP 3: Code & Configure System Changes (Siebel)	0%	Mon 12/15/08	Thu 1/15/09
829	COMS	COMS REG 5/DISP 3: Siebel Development Coding Complete	0%	Thu 1/15/09	Thu 1/15/09
831	**COMS**	**COMS REG 5/DISP 3: DEVELOPMENT UNIT TESTING COMPLETE**	**0%**	**Mon 12/15/08**	**Mon 1/19/09**
832	COMS	COMS REG 5/DISP 3: Create Unit Test Scripts	0%	Mon 12/15/08	Thu 1/15/09
833	COMS	COMS REG 5/DISP 3: Execute unit Test Scripts	0%	Fri 1/16/09	Mon 1/19/09
834	COMS	COMS REG 5/DISP 3: Development Unit Testing Complete	0%	Mon 1/19/09	Mon 1/19/09
835	**COMS**	**COMS REG 5/DISP 3: APPLICATION CODE Zonal Nodal RESYNCH IN DEVELOPMENT FOR DELIVERY**	**0%**	**Tue 1/20/09**	**Tue 1/20/09**
836	COMS	COMS REG 5/DISP 3: Resynch Nodal development & Zonal build environment code for delivery	0%	Tue 1/20/09	Tue 1/20/09
837	COMS	COMS REG 5/DISP 3: Application Code Resynch development complete	0%	Tue 1/20/09	Tue 1/20/09
838	**COMS**	**COMS REG 5/DISP 3: PRODUCT TESTING APPLICATION**	**0%**	**Mon 12/15/08**	**Wed 1/21/09**
839	COMS	COMS REG 5/DISP 3: Create Product Testing Scripts	0%	Mon 12/15/08	Thu 1/15/09
840	COMS	COMS REG 5/DISP 3: Execute Product Test Scripts	0%	Wed 1/21/09	Wed 1/21/09
841	COMS	COMS REG 5/DISP 3: Product Test Application complete	0%	Wed 1/21/09	Wed 1/21/09
842	**COMS**	**COMS REG 5/DISP 3: MIGRATION CONTROL DOCUMENT(S)**	**0%**	**Thu 1/22/09**	**Thu 1/22/09**
843	COMS	COMS REG 5/DISP 3: Create Manual Migration Control Request (MMCR)	0%	Thu 1/22/09	Thu 1/22/09
844	COMS	COMS REG 5/DISP 3: Manual Migration Control Request (MMCR) Complete	0%	Thu 1/22/09	Thu 1/22/09
845	COMS	COMS REG 5/DISP 3: Development Complete	0%	Thu 1/22/09	Thu 1/22/09
846	**COMS**	**COMS REG 5/DISP 3: TEST PLANNING**	**0%**	**Mon 12/15/08**	**Tue 1/27/09**
847	**COMS**	**COMS REG 5/DISP 3: REFACTORING FAT & INTEGRATION TEST CASES**	**0%**	**Mon 12/15/08**	**Tue 1/27/09**
848	**COMS**	**COMS REG 5/DISP 3: REFACTORING INTEGRATION (Registration to Synch Systems) TEST CAS**	**0%**	**Mon 12/15/08**	**Tue 1/27/09**
849	COMS	COMS REG 5/DISP 3: Create Integration Test Cases	0%	Mon 12/15/08	Thu 1/15/09
850	COMS	COMS REG 5/DISP 3: Business Review Integration Test Cases	0%	Fri 1/16/09	Tue 1/27/09
851	COMS	COMS REG 5/DISP 3: Integration Test Cases Complete	0%	Tue 1/27/09	Tue 1/27/09
852	**COMS**	**COMS REG 5/DISP 3: REFACTORING FAT TEST CASES**	**0%**	**Mon 12/15/08**	**Tue 1/27/09**
853	COMS	COMS REG 5/DISP 3: Create FAT Test Cases	0%	Mon 12/15/08	Thu 1/15/09
854	COMS	COMS REG 5/DISP 3: Business Review FAT Test Cases	0%	Fri 1/16/09	Tue 1/27/09
855	COMS	COMS REG 5/DISP 3: FAT Test Cases Complete	0%	Tue 1/27/09	Tue 1/27/09
856	**COMS**	**COMS REG 5/DISP 3: REFACTORING REGRESSION (FAT & INTEGRATION) TEST CASES**	**0%**	**Mon 12/15/08**	**Tue 1/27/09**
857	COMS	COMS REG 5/DISP 3: Create Main Module Regression Test Cases	0%	Mon 12/15/08	Thu 1/15/09
858	COMS	COMS REG 5/DISP 3: Business Review Regression Test Cases	0%	Fri 1/16/09	Tue 1/27/09
859	COMS	COMS REG 5/DISP 3: Regression Test Cases Complete	0%	Tue 1/27/09	Tue 1/27/09
860	**COMS**	**COMS REG 5/DISP 3: TEST PLAN (FAT & INTEGRATION)**	**0%**	**Wed 1/7/09**	**Fri 1/16/09**
861	COMS	COMS REG 5/DISP 3: Update FAT & INTEGRATION Test Plan	0%	Wed 1/7/09	Tue 1/13/09
					Wed 1/14/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
862	COMS	COMS REG 5/DISP 3: Submit Test Plan for Review & Approval	0%	Wed 1/14/09	Fri 1/16/09
863	COMS	COMS REG 5/DISP 3: Test Plan Complete	0%	Fri 1/16/09	Fri 1/16/09
864	**COMS**	**COMS REG 5/DISP 3: FAT & INTEGRATION TEST SCRIPT DEVELOPMENT**	**0%**	**Mon 12/15/08**	**Tue 1/27/09**
865	**COMS**	**COMS REG 5/DISP 3: INTEGRATION (Registration to xxx)**	**0%**	**Mon 12/15/08**	**Tue 1/27/09**
866	COMS	COMS REG 5/DISP 3: Create Integration Test Scripts	0%	Mon 12/15/08	Thu 1/15/09
867	COMS	COMS REG 5/DISP 3: Business Review Integration Test Scripts	0%	Fri 1/16/09	Tue 1/27/09
868	COMS	COMS REG 5/DISP 3: Integration Test Scripts Complete	0%	Tue 1/27/09	Tue 1/27/09
869	**COMS**	**COMS REG 5/DISP 3: FAT SCRIPTS**	**0%**	**Mon 12/15/08**	**Tue 1/27/09**
870	COMS	COMS REG 5/DISP 3: Create FAT Test Scripts	0%	Mon 12/15/08	Thu 1/15/09
871	COMS	COMS REG 5/DISP 3: Business Review FAT Test Scripts	0%	Fri 1/16/09	Tue 1/27/09
872	COMS	COMS REG 5/DISP 3: FAT Test Scripts Complete	0%	Tue 1/27/09	Tue 1/27/09
873	**COMS**	**COMS REG 5/DISP 3: REGRESSION (FAT & INTEGRATION) TEST SCRIPTS**	**0%**	**Mon 12/15/08**	**Tue 1/27/09**
874	COMS	COMS REG 5/DISP 3: Create SBL Main Module Regression Test Scripts	0%	Mon 12/15/08	Thu 1/15/09
875	COMS	COMS REG 5/DISP 3: Business Review Regression Test Scripts	0%	Fri 1/16/09	Tue 1/27/09
876	COMS	COMS REG 5/DISP 3: Regression Test Scripts Complete	0%	Tue 1/27/09	Tue 1/27/09
877	COMS	COMS REG 5/DISP 3: Test Planning Complete	0%	Tue 1/27/09	Tue 1/27/09
878	**COMS**	**COMS REG 5/DISP 3: MIGRATION**	**0%**	**Fri 1/23/09**	**Fri 1/23/09**
879	COMS	COMS REG 5/DISP 3: Perform Migration to ZONAL ITEST	0%	Fri 1/23/09	Fri 1/23/09
880	COMS	COMS REG 5/DISP 3: Migration to ZONAL ITEST Complete	0%	Fri 1/23/09	Fri 1/23/09
881	**COMS**	**COMS REG 5/DISP 3: TESTING**	**0%**	**Mon 1/26/09**	**Fri 2/27/09**
882	**COMS**	**COMS REG 5/DISP 3: INTEGRATION TEST**	**0%**	**Mon 1/26/09**	**Fri 2/20/09**
883	COMS	COMS REG 5/DISP 3: Execute Integration Tests	0%	Mon 1/26/09	Fri 2/20/09
884	COMS	COMS REG 5/DISP 3: Integration Tests Complete	0%	Fri 2/20/09	Fri 2/20/09
885	**COMS**	**COMS REG 5/DISP 3: FAT TEST**	**0%**	**Mon 1/26/09**	**Fri 2/27/09**
886	COMS	COMS REG 5/DISP 3: FAT Testing eService	0%	Mon 1/26/09	Fri 2/27/09
887	COMS	COMS REG 5/DISP 3: FAT Testing eEnergy	0%	Mon 1/26/09	Fri 2/27/09
888	COMS	COMS REG 5/DISP 3: FAT Testing Complete	0%	Fri 2/27/09	Fri 2/27/09
889	**COMS**	**COMS REG 5/DISP 3: REGRESSION TEST**	**0%**	**Mon 1/26/09**	**Fri 2/27/09**
890	COMS	COMS REG 5/DISP 3: Regression Test main Module	0%	Mon 1/26/09	Fri 2/27/09
891	COMS	COMS REG 5/DISP 3: Regression Test Integration	0%	Mon 1/26/09	Fri 2/27/09
892	COMS	COMS REG 5/DISP 3: Regression Test Complete	0%	Fri 2/27/09	Fri 2/27/09
893	COMS	COMS REG 5/DISP 3: Testing Complete	0%	Fri 2/27/09	Fri 2/27/09
894	**COMS**	**COMS REG 5/DISP 3: "AS-BUILT" SOFTWARE ARCHITECTURE UPDATES**	**0%**	**Mon 1/26/09**	**Fri 2/27/09**
895	COMS	COMS REG 5/DISP 3: Create SDLC As Built Technical Architecutre Requirements	0%	Mon 1/26/09	Fri 2/27/09
896	COMS	COMS REG 5/DISP 3: SDLC As Built Technical Architecture Requirements Complete	0%	Fri 2/27/09	Fri 2/27/09

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ID	Project Name	Task Name	% Complete	Start	Finish
897	**COMS**	**COMS REG 5/DISP 3: OPERATIONAL DOCUMENTATION**	**0%**	**Tue 1/20/09**	**Mon 2/16/09**
898	COMS	COMS REG 5/DISP 3: Create Operational & Business Support Document	0%	Tue 1/20/09	Mon 2/16/09
899	COMS	COMS REG 5/DISP 3: Operational & Business Support Document Complete	0%	Mon 2/16/09	Mon 2/16/09
900	**COMS**	**COMS REG 5/DISP 3: PRODUCTION MIGRATION PLANNING**	**0%**	**Mon 3/2/09**	**Mon 3/2/09**
901	COMS	COMS REG 5/DISP 3: Create Production Migration Plan	0%	Mon 3/2/09	Mon 3/2/09
902	COMS	COMS REG 5/DISP 3: Production Migration Plan Complete	0%	Mon 3/2/09	Mon 3/2/09
903	**COMS**	**COMS REG 5/DISP 3: IMPLEMENTATION TO PRODUCTION**	**0%**	**Tue 3/3/09**	**Mon 3/23/09**
904	**COMS**	**COMS REG 5/DISP 3: PRODUCTION RELEASE COORDINATION**	**0%**	**Tue 3/3/09**	**Tue 3/3/09**
905	COMS	COMS REG 5/DISP 3: Meeting Production Migration Plan Review	0%	Tue 3/3/09	Tue 3/3/09
906	COMS	COMS REG 5/DISP 3: Create Market Notification	0%	Tue 3/3/09	Tue 3/3/09
907	**COMS**	**COMS REG 5/DISP 3: MIGRATION**	**0%**	**Wed 3/4/09**	**Mon 3/9/09**
908	COMS	COMS REG 5/DISP 3: Create Change Request	0%	Wed 3/4/09	Wed 3/4/09
909	COMS	COMS REG 5/DISP 3: Submit Change Request to CCM Coordinator	0%	Wed 3/4/09	Wed 3/4/09
910	COMS	COMS REG 5/DISP 3: Change Request Approved	0%	Wed 3/4/09	Wed 3/4/09
911	COMS	COMS REG 5/DISP 3: Perform Production Migration	0%	Thu 3/5/09	Thu 3/5/09
912	COMS	COMS REG 5/DISP 3: Perform Production Verification	0%	Fri 3/6/09	Mon 3/9/09
913	COMS	COMS REG 5/DISP 3: Perform Systems Stabilization	0%	Tue 3/10/09	Mon 3/23/09
914	COMS	COMS Registration / Disputes Projects Complete	0%	Tue 5/19/09	Tue 5/19/09
915	**COMS**	**Core Project Supprt for Test & EDS**	**0%**	**Thu 4/30/09**	**Mon 11/8/10**
916	COMS	PM Transition & Support Activities	0%	Wed 5/20/09	Mon 11/1/10
917	COMS	Development Transition & Support Activities	0%	Thu 4/30/09	Mon 11/8/10
918	COMS	COMS Project End	0%	Mon 11/8/10	Mon 11/8/10
11	**Nodal IPS**	**EIP - Enterprise Integration Project**	**58%**	**Sun 6/1/08**	**Thu 6/3/10**
1	**EIP**	**Nodal EIP Project Schedule**	**58%**	**Sun 6/1/08**	**Thu 6/3/10**
2	EIP	EIP Project Started	100%	Sun 6/1/08	Sun 6/1/08
3	**EIP**	**Inputs & Outputs**	**0%**	**Mon 6/2/08**	**Fri 8/14/09**
4	**EIP**	**Receivables**	**0%**	**Mon 6/2/08**	**Wed 5/6/09**
5	**EIP**	**MMS**	**0%**	**Tue 9/30/08**	**Wed 5/6/09**
7	EIP	Receive MMS4P4 Assessed of Changes from MMS	100%	Tue 9/30/08	Tue 9/30/08
10	EIP	Receive MMS4P5 Assessed of Changes from MMS	100%	Tue 10/28/08	Tue 10/28/08
12	EIP	Receive MMS4P6 Assessed of Changes from MMS	100%	Mon 12/8/08	Mon 12/8/08
14	EIP	Receive MMS4P7 Assessed of Changes from MMS	0%	Thu 1/29/09	Thu 1/29/09
17	EIP	Receive MMS5 Assessed of Changes from MMS	0%	Wed 5/6/09	Wed 5/6/09
18	**EIP**	**NMMS**	**0%**	**Wed 12/10/08**	**Mon 3/23/09**
20	EIP	Receive NMMS5 Changes from NMMS	100%	Wed 12/10/08	Wed 12/10/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
22	EIP	Receive NMMS6 Changes from NMMS	0%	Wed 1/14/09	Wed 1/14/09
24	EIP	Receive NMMS7 Changes from NMMS	0%	Mon 3/23/09	Mon 3/23/09
25	**EIP**	**CMM**	**0%**	**Mon 6/2/08**	**Mon 6/2/08**
26	EIP	Receive CMM 4.1 Changes from CMM	0%	Mon 6/2/08	Mon 6/2/08
27	EIP	Receive CMM 4.2 Changes from CMM	0%	Mon 6/2/08	Mon 6/2/08
28	EIP	Receive CMM 4.3 Changes from CMM	0%	Mon 6/2/08	Mon 6/2/08
29	**EIP**	**REG**	**0%**	**Thu 1/15/09**	**Thu 1/15/09**
31	EIP	Receive REG5/DISP3 Changes from REG	0%	Thu 1/15/09	Thu 1/15/09
32	**EIP**	**CRR**	**0%**	**Thu 12/18/08**	**Thu 12/18/08**
34	EIP	Receive CRR 4 delivery / Analyze Changes for Adapters	0%	Thu 12/18/08	Thu 12/18/08
35	**EIP**	**OS**	**0%**	**Mon 12/1/08**	**Mon 12/1/08**
37	EIP	Receive OS 2.10 Delivery / Analyze Changes for Adapters	0%	Mon 12/1/08	Mon 12/1/08
38	**EIP**	**Deliveries**	**0%**	**Tue 9/16/08**	**Fri 8/14/09**
39	**EIP**	**IR2**	**100%**	**Tue 9/16/08**	**Tue 9/16/08**
40	EIP	Deliver Adapters for R2 to INT	100%	Tue 9/16/08	Tue 9/16/08
42	**EIP**	**IR3**	**100%**	**Fri 10/17/08**	**Fri 12/12/08**
43	EIP	Deliver Adapters for R3 TC1 to INT	100%	Fri 10/17/08	Fri 10/17/08
45	EIP	Deliver Adapters for R3 TC2 to INT	100%	Tue 10/28/08	Tue 10/28/08
47	EIP	Deliver Adapters for R3 TC3 to INT	100%	Fri 12/12/08	Fri 12/12/08
49	**EIP**	**IR4**	**0%**	**Fri 1/23/09**	**Fri 4/10/09**
50	EIP	Deliver Adapters for R4 TC1 to INT & EDW	0%	Fri 1/23/09	Fri 1/23/09
52	EIP	Deliver Adapters for R4 TC2 to INT	0%	Fri 2/20/09	Fri 2/20/09
54	EIP	Deliver Adapters for R4 TC3 to INT	0%	Tue 3/17/09	Tue 3/17/09
56	EIP	Deliver Adapters for R4 TC4 to INT	0%	Fri 4/10/09	Fri 4/10/09
58	**EIP**	**IR5**	**0%**	**Thu 7/9/09**	**Fri 8/14/09**
59	EIP	Deliver Adapters for R5 TC1 to INT	0%	Thu 7/9/09	Thu 7/9/09
61	EIP	Deliver Adapters for R5 TC2 to INT	0%	Fri 8/14/09	Fri 8/14/09
63	EIP	EIP.Project Management	24%	Sun 6/1/08	Mon 3/1/10
64	**EIP**	**Integrated Release Support**	**18%**	**Mon 6/2/08**	**Thu 6/3/10**
65	**EIP**	**Release 2 Support**	**100%**	**Mon 6/2/08**	**Tue 10/14/08**
66	EIP	EIP.R2.Verify Adapters (incorporates release planning)	100%	Mon 6/2/08	Mon 8/11/08
67	EIP	EIP.R2.deployment	100%	Wed 9/10/08	Tue 9/16/08
68	EIP	EIP.R2.Defect Management	100%	Wed 9/17/08	Tue 10/14/08
69	EIP	EIP.R2.Defect analysis & fixes	100%	Wed 9/17/08	Tue 10/14/08
70	**EIP**	**IR3/TC3 Support**	**90%**	**Mon 12/15/08**	**Fri 1/16/09**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
71	EIP	EIP.R3/TC3.Verify Adapters	100%	Mon 12/15/08	Mon 12/15/08
72	EIP	EIP.R3/TC3.deployment	100%	Mon 12/15/08	Mon 12/15/08
73	EIP	EIP.R3/TC3.Defect Management	100%	Tue 12/16/08	Fri 1/16/09
74	EIP	EIP.R3/TC3.Defect analysis & fixes	80%	Tue 12/16/08	Fri 1/16/09
75	**EIP**	**Release 4 Support**	**0%**	**Mon 4/13/09**	**Mon 10/19/09**
76	EIP	EIP.R4.Verify Adapters	0%	Mon 4/13/09	Thu 4/16/09
77	EIP	EIP.R4.deployment	0%	Fri 4/17/09	Wed 4/22/09
78	EIP	EIP.R4.Defect Management	0%	Thu 4/23/09	Mon 10/19/09
79	EIP	EIP.R4.Defect analysis & fixes	0%	Thu 4/23/09	Fri 7/17/09
80	EIP	EIP.R4.Defect analysis & fixes	0%	Mon 7/20/09	Mon 10/19/09
81	**EIP**	**Release 5 Support**	**0%**	**Mon 7/20/09**	**Thu 6/3/10**
82	EIP	EIP.R5.Verify Adapters	0%	Mon 7/20/09	Fri 7/31/09
83	EIP	EIP.R5.deployment	0%	Tue 10/20/09	Fri 10/23/09
84	EIP	EIP.R5.Defect Management	0%	Mon 10/26/09	Thu 6/3/10
85	EIP	EIP.R5.Defect analysis & fixes	0%	Mon 10/26/09	Thu 6/3/10
86	**EIP**	**External Web Services (EWS)**	**58%**	**Mon 6/2/08**	**Fri 11/20/09**
87	**EIP**	**External Documentation**	**27%**	**Wed 9/3/08**	**Fri 11/20/09**
88	EIP	EIP.ExtDoc.Monitoring Guide	0%	Mon 10/26/09	Fri 11/20/09
89	EIP	EIP.ExtDoc.Integration 101	0%	Mon 10/26/09	Fri 11/20/09
90	EIP	EIP.ExtDoc.Operations Guide	0%	Mon 10/26/09	Fri 11/20/09
91	EIP	EIP.ExtDoc.Developer Guide	0%	Mon 10/26/09	Fri 11/20/09
92	EIP	EIP.ExtDoc.External Developer Guide	0%	Mon 10/26/09	Fri 11/20/09
93	EIP	EIP.ExtDoc.EIS v 1.16 Approval	100%	Wed 9/3/08	Tue 10/14/08
94	EIP	EIP.ExtDoc.EIS v 1.17 Approval	100%	Tue 11/11/08	Thu 12/18/08
96	EIP	EIP.ExtDoc.EIS v1.18 Approval	0%	Mon 2/23/09	Fri 3/27/09
98	EIP	EIP.ExtDoc.EIS v1.19 Approval	0%	Fri 6/5/09	Fri 7/10/09
99	**EIP**	**Loopback Adapter**	**96%**	**Mon 6/2/08**	**Tue 7/7/09**
100	EIP	EIP.Loopback.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
101	EIP	EIP.Loopback.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
102	EIP	EIP.Loopback.Resource.Construction & UT	100%	Tue 8/12/08	Tue 10/7/08
103	EIP	EIP.Loopback.Resource.QA Test	100%	Mon 11/3/08	Fri 11/7/08
104	EIP	EIP.Loopback.Resource.Package & deploy to Sandbox	100%	Mon 11/10/08	Tue 11/11/08
105	EIP	EIP.Loopback.v1.18 - Sandbox Deployment	0%	Wed 3/18/09	Thu 3/19/09
106	EIP	EIP.Loopback.v1.19 - Sandbox Deployment	0%	Mon 7/6/09	Tue 7/7/09
107	**EIP**	**MMS Simulator**	**83%**	**Mon 6/2/08**	**Fri 12/12/08**

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
108	EIP	EIP.MMSSimulator.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
109	EIP	EIP.MMSSimulator.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
110	EIP	EIP.MMSSimulator.Resource.Construction & UT	100%	Tue 8/12/08	Tue 10/7/08
111	EIP	EIP.MMSSimulator.Resource.QA Test	100%	Mon 11/3/08	Fri 11/7/08
112	EIP	EIP.MMSSimulator.Resource.Package & deploy to Sandbox	100%	Mon 11/10/08	Tue 11/11/08
113	EIP	IP Redirector support	0%	Wed 11/12/08	Fri 12/12/08
114	**EIP**	**EWS 1.15 Enhancements**	**100%**	**Mon 6/2/08**	**Mon 8/18/08**
115	EIP	EIP.WS1.15.Enhancement.Analysis (MM4P2)	100%	Mon 6/2/08	Fri 6/27/08
116	EIP	EIP.WS1.15.Enhancement.Design	100%	Mon 6/30/08	Mon 7/14/08
117	EIP	EIP.WS1.15.Enhancement.Construction & UT	100%	Tue 7/15/08	Mon 7/28/08
118	EIP	EIP.WS1.15.Enhancement.QA Test	100%	Tue 7/29/08	Mon 8/11/08
119	EIP	EIP.WS1.15.Enhancement.Package & deploy to iTest	100%	Tue 8/12/08	Mon 8/18/08
120	**EIP**	**EWS 1.16 Enhancements**	**100%**	**Tue 8/19/08**	**Thu 12/11/08**
121	EIP	EIP.WS1.16.Enhancement.Analysis (MMS4P3)	100%	Tue 8/19/08	Tue 9/2/08
122	EIP	EIP.WS1.16.Enhancement.Design	100%	Wed 9/3/08	Tue 9/16/08
123	EIP	EIP.WS1.16.Enhancement.Construction & UT	100%	Wed 9/17/08	Tue 9/30/08
124	EIP	EIP.WS1.16.Enhancement.QA Test	100%	Wed 10/1/08	Fri 10/3/08
125	EIP	EIP.WS1.16.Enhancement.Package & deploy to iTest	100%	Mon 10/6/08	Thu 10/9/08
126	EIP	EIP.WS1.16Defect Resolution support IR3/TC2	100%	Fri 10/10/08	Thu 12/11/08
127	**EIP**	**EWS 1.17 Enhancements (IR3/TC3)**	**100%**	**Wed 10/1/08**	**Tue 1/13/09**
128	EIP	EIP.WS1.17.Enhancement.Analysis (OS)	100%	Wed 10/1/08	Fri 10/17/08
129	EIP	EIP.WS1.17.Enhancement.Analysis (MMS4P5)	100%	Tue 10/28/08	Mon 11/10/08
130	EIP	EIP.WS1.17.Enhancement.Design	100%	Mon 10/20/08	Tue 11/11/08
131	EIP	EIP.WS1.17.Enhancement.Construction & UT	100%	Wed 11/12/08	Tue 12/9/08
132	EIP	EIP.WS1.17.Enhancement.QA Test	100%	Wed 12/10/08	Thu 12/11/08
133	EIP	EIP.WS1.17.Enhancement.Package & deploy to iTest	100%	Fri 12/12/08	Fri 12/12/08
134	EIP	EIP.WS1.17.IR3/TC3 Enhancement / Defect Support (MMS4 P5/OS2.0.13)	100%	Mon 12/15/08	Tue 1/13/09
135	**EIP**	**EWS 1.18 Enhancements (IR4/TC1 - MMS4 P6/7 - OS 2.1.0)**	**18%**	**Wed 12/10/08**	**Tue 3/17/09**
136	EIP	EIP.WS1.18.Enhancement.Analysis (MMS4 P6)	100%	Wed 12/10/08	Tue 12/16/08
137	EIP	EIP.WS1.18.Enhancement.Design	100%	Wed 12/17/08	Tue 1/6/09
138	EIP	EIP.WS1.18.Enhancement.Construction & UT	0%	Wed 1/7/09	Tue 1/20/09
139	EIP	EIP.WS1.18.Enhancement.QA Test	0%	Wed 1/21/09	Thu 1/22/09
140	EIP	EIP.WS1.18.Enhancement.Package & deploy to iTest	0%	Fri 1/23/09	Fri 1/23/09
141	EIP	EIP.WS1.18.Enhancement.Analysis (MMS4 P7)	0%	Fri 1/30/09	Thu 2/12/09
142	EIP	EIP.WS1.18.Enhancement.Design (MMS4 P7)	0%	Fri 2/13/09	Fri 2/20/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
143	EIP	EIP.WS1.18.Enhancement.Construction & UT (MMS4 P7)	0%	Mon 2/23/09	Wed 3/4/09
144	EIP	EIP.WS1.18.Enhancement.QA Test (MMS4 P7)	0%	Thu 3/5/09	Mon 3/16/09
145	EIP	EIP.WS1.18.Enhancement.Package & deploy to iTest (MMS4 P7)	0%	Tue 3/17/09	Tue 3/17/09
146	**EIP**	**EWS 1.19 Enhancements (IR5/TC1 - MMS5) - (EMS Alerts, Mkt Info Svcs, Get Reports, Util Svcs, Mkt Close, Outgoing No**	**0%**	**Thu 5/7/09**	**Mon 8/3/09**
147	EIP	EIP.WS1.19.Enhancement.Analysis (MMS5)	0%	Thu 5/7/09	Wed 5/20/09
148	EIP	EIP.WS1.19.Enhancement.Design	0%	Thu 5/21/09	Thu 6/4/09
149	EIP	EIP.WS1.19.Enhancement.Construction & UT	0%	Fri 6/5/09	Thu 7/2/09
150	EIP	EIP.WS1.19.Enhancement.QA Test	0%	Mon 7/6/09	Fri 7/31/09
151	EIP	EIP.WS1.19.Enhancement.Package & deploy to iTest	0%	Mon 8/3/09	Mon 8/3/09
152	**EIP**	**Chunking Enhancements (if necessary - depends on Performance Testing results - might be removed)**	**0%**	**Fri 1/30/09**	**Thu 4/16/09**
153	EIP	EIP.Chunking.Enhancement.Analysis	0%	Fri 1/30/09	Thu 2/12/09
154	EIP	EIP.Chunking.Enhancement.Design	0%	Fri 2/13/09	Thu 2/26/09
155	EIP	EIP.Chunking.Resource.Design Review	0%	Fri 2/27/09	Fri 2/27/09
156	EIP	EIP.Chunking.Enhancement.Construction & UT	0%	Mon 3/2/09	Fri 3/27/09
157	EIP	EIP.Chunking.Resource.Adapter Review	0%	Mon 3/30/09	Mon 3/30/09
158	EIP	EIP.Chunking.Enhancement.QA Test	0%	Tue 3/31/09	Mon 4/13/09
159	EIP	EIP.Chunking.Enhancement.Package & deploy to iTest	0%	Tue 4/14/09	Thu 4/16/09
160	**EIP**	**Adapters**	**68%**	**Sun 6/1/08**	**Fri 8/14/09**
161	**EIP**	**CMM - CRR (Initial delivery IR3)**	**83%**	**Mon 6/2/08**	**Fri 2/20/09**
162	EIP	EIP.CMM.CRR.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
163	EIP	EIP.CMM.CRR.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
164	EIP	EIP.CMM.CRR.Resource.Construction & UT	100%	Tue 8/12/08	Tue 10/7/08
165	EIP	EIP.CMM.CRR.Resource.QA Test	100%	Mon 11/3/08	Fri 11/7/08
166	EIP	EIP.CMM.CRR.Resource.Package & deploy to iTest	100%	Mon 11/10/08	Tue 11/11/08
167	**EIP**	**IR4/TC2 delivery**	**0%**	**Mon 1/26/09**	**Fri 2/20/09**
168	EIP	EIP.CMM.CRR.Resource.Construction & UT	0%	Mon 1/26/09	Fri 2/13/09
169	EIP	EIP.CMM.CRR.Resource.QA Test	0%	Mon 2/16/09	Thu 2/19/09
170	EIP	EIP.CMM.CRR.Resource.Package & deploy changes for IR4/TC2 (L4 Testing)	0%	Fri 2/20/09	Fri 2/20/09
171	**EIP**	**CMM - MMS (Initial delivery IR3)**	**51%**	**Mon 6/2/08**	**Fri 8/14/09**
172	EIP	EIP.CMM.MMS.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
173	EIP	EIP.CMM.MMS.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
174	EIP	EIP.CMM.MMS.Resource.Construction & UT	100%	Tue 8/12/08	Tue 10/7/08
175	EIP	EIP.CMM.MMS.Resource.Adapter Review	100%	Wed 10/8/08	Wed 10/8/08
176	EIP	EIP.CMM.MMS.Resource.QA Test	100%	Mon 11/3/08	Fri 11/7/08
177	EIP	EIP.CMM.MMS.Resource.Package & deploy to iTest	100%	Mon 11/10/08	Tue 11/11/08
					Wed 1/14/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
178	**EIP**	**IR4/TC2 Delivery**	**0%**	**Mon 1/26/09**	**Fri 2/20/09**
179	EIP	EIP.CMM.MMS.Resource.Construction & UT	0%	Mon 1/26/09	Fri 2/13/09
180	EIP	EIP.CMM.MMS.Resource.QA Test	0%	Mon 2/16/09	Thu 2/19/09
181	EIP	EIP.CMM.MMS Resource.Package & deploy changes for IR4/TC2 (L4 Testing)	0%	Fri 2/20/09	Fri 2/20/09
182	**EIP**	**IR5/TC1 Delivery**	**0%**	**Mon 4/13/09**	**Thu 6/18/09**
183	EIP	EIP.CMM.MMS.Resource.Construction & UT	0%	Mon 4/13/09	Mon 5/25/09
184	EIP	EIP.CMM.MMS.Resource.QA Test	0%	Tue 5/26/09	Mon 6/15/09
185	EIP	EIP.CMM.MMS Resource.Package & deploy changes for IR5/TC1 (L4 Testing)	0%	Tue 6/16/09	Thu 6/18/09
186	**EIP**	**IR5/TC2 Delivery**	**0%**	**Fri 7/10/09**	**Fri 8/14/09**
187	EIP	EIP.CMM.MMS.Resource.Construction & UT	0%	Fri 7/10/09	Thu 7/30/09
188	EIP	EIP.CMM.MMS.Resource.QA Test	0%	Fri 7/31/09	Thu 8/13/09
189	EIP	EIP.CMM.MMS Resource.Package & deploy changes for IR5/TC2 (L4 Testing)	0%	Fri 8/14/09	Fri 8/14/09
190	**EIP**	**CMM - Reg (Creditworthiness) (Initial delivery IR3)**	**87%**	**Mon 6/2/08**	**Fri 2/20/09**
191	EIP	EIP.CMM.Reg.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
192	EIP	EIP.CMM.Reg.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
193	EIP	EIP.CMM.Reg.Resource.Construction & UT	100%	Tue 8/12/08	Tue 9/9/08
194	EIP	EIP.CMM.Reg.Resource.QA Test	100%	Wed 9/10/08	Tue 9/23/08
195	EIP	EIP.CMM.Reg.Resource.Package & deploy to iTest	100%	Wed 9/24/08	Thu 10/16/08
196	**EIP**	**IR3/TC3 Delivery**	**100%**	**Fri 10/17/08**	**Fri 12/12/08**
197	EIP	EIP.CMM.Reg.Resource.Construction & UT	100%	Fri 10/17/08	Thu 11/13/08
198	EIP	EIP.CMM.Reg.Resource.QA Test	100%	Fri 11/14/08	Tue 12/9/08
199	EIP	EIP.CMM.Reg.Resource.Package & deploy changes for IR3/TC3 (Lx Testing)	100%	Wed 12/10/08	Fri 12/12/08
200	**EIP**	**IR4/TC2 Delivery**	**0%**	**Mon 1/26/09**	**Fri 2/20/09**
201	EIP	EIP.CMM.Reg.Resource.Construction & UT	0%	Mon 1/26/09	Fri 2/13/09
202	EIP	EIP.CMM.Reg.Resource.QA Test	0%	Mon 2/16/09	Thu 2/19/09
203	EIP	EIP.CMM.Reg.Resource.Package & deploy changes for IR4/TC2 (L1 Testing)	0%	Fri 2/20/09	Fri 2/20/09
204	**EIP**	**CRR - CMM (Initial delivery IR3)**	**86%**	**Mon 6/2/08**	**Fri 2/20/09**
205	EIP	EIP.CRR.CMM.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
206	EIP	EIP.CRR.CMM.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
207	EIP	EIP.CRR.CMM.Resource.Construction & UT	100%	Tue 8/12/08	Tue 10/7/08
208	EIP	EIP.CRR.CMM.Resource.Adapter Review	100%	Wed 10/8/08	Wed 10/8/08
209	EIP	EIP.CRR.CMM.Resource.QA Test	100%	Mon 11/3/08	Fri 11/7/08
210	EIP	EIP.CRR.CMM.Resource.Package & deploy to iTest	100%	Mon 11/10/08	Tue 11/11/08
211	**EIP**	**IR3/TC3 Delivery**	**100%**	**Wed 11/12/08**	**Fri 12/12/08**
212	EIP	EIP.CRR.CMM.Resource.Construction & UT	100%	Wed 11/12/08	Tue 11/25/08

Wed 1/14/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
213	EIP	EIP.CRR.CMM.Resource.QA Test	100%	Wed 11/26/08	Wed 12/10/08
214	EIP	EIP.CRR.CMM.Resource.Package & deploy changes for IR3/TC3 (L1 Testing)	100%	Thu 12/11/08	Fri 12/12/08
215	**EIP**	**IR4/TC2 Delivery**	**0%**	**Mon 1/26/09**	**Fri 2/20/09**
216	EIP	EIP.CRR.CMM.Resource.Construction & UT	0%	Mon 1/26/09	Fri 2/13/09
217	EIP	EIP.CRR.CMM.Resource.QA Test	0%	Mon 2/16/09	Thu 2/19/09
218	EIP	EIP.CRR.CMM.Resource.Package & deploy changes for IR4/TC2 (L4 Testing)	0%	Fri 2/20/09	Fri 2/20/09
219	**EIP**	**CRR - MMS (Initial delivery IR3)**	**56%**	**Mon 6/2/08**	**Fri 8/14/09**
220	EIP	EIP.CRR.MMS.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
221	EIP	EIP.CRR.MMS.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
222	EIP	EIP.CRR.MMS.Resource.Construction & UT	100%	Tue 8/12/08	Tue 10/7/08
223	EIP	EIP.CRR.MMS.Resource.Adapter Review	100%	Wed 10/8/08	Wed 10/8/08
224	EIP	EIP.CRR.MMS.Resource.QA Test	100%	Mon 11/3/08	Fri 11/7/08
225	EIP	EIP.CRR.MMS.Resource.Package & deploy to iTest	100%	Mon 11/10/08	Tue 11/11/08
226	**EIP**	**IR4/TC1 Delivery**	**49%**	**Mon 12/15/08**	**Fri 1/23/09**
227	EIP	EIP.CRR.MMS.Resource.Construction & UT	65%	Mon 12/15/08	Fri 1/16/09
228	EIP	EIP.CRR.MMS.Resource.QA Test	0%	Mon 1/19/09	Thu 1/22/09
229	EIP	EIP.CRR.MMS Resource.Package & deploy changes for IR4/TC1 (L3 Testing)	0%	Fri 1/23/09	Fri 1/23/09
230	**EIP**	**IR5/TC1 Delivery**	**0%**	**Mon 4/13/09**	**Thu 6/18/09**
231	EIP	EIP.CRR.MMS.Resource.Construction & UT	0%	Mon 4/13/09	Mon 5/25/09
232	EIP	EIP.CRR.MMS.Resource.QA Test	0%	Tue 5/26/09	Mon 6/15/09
233	EIP	EIP.CRR.MMS Resource.Package & deploy changes for IR5/TC1 (L4 Testing)	0%	Tue 6/16/09	Thu 6/18/09
234	**EIP**	**IR5/TC2 Delivery**	**0%**	**Fri 7/10/09**	**Fri 8/14/09**
235	EIP	EIP.CRR.MMS.Resource.Construction & UT	0%	Fri 7/10/09	Thu 7/30/09
236	EIP	EIP.CRR.MMS.Resource.QA Test	0%	Fri 7/31/09	Thu 8/13/09
237	EIP	EIP.CRR.MMS Resource.Package & deploy changes for IR5/TC2 (L4 Testing)	0%	Fri 8/14/09	Fri 8/14/09
238	**EIP**	**NMMS - CRR (initial deploy IR4/TC3)**	**71%**	**Mon 6/2/08**	**Fri 4/10/09**
239	EIP	EIP.NMMS.CRR.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
240	EIP	EIP.NMMS.CRR.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
241	EIP	EIP.NMMS.CRR.Resource.Construction & UT	100%	Tue 8/12/08	Tue 10/7/08
242	EIP	EIP.NMMS.CRR.Resource.Adapter Review	0%	Tue 2/10/09	Tue 2/10/09
243	EIP	EIP.MMMS.CRR.Resource.QA Test	0%	Mon 2/23/09	Fri 3/13/09
244	EIP	EIP.NMMS.CRR.Resource.Package & deploy to iTest	0%	Mon 3/16/09	Tue 3/17/09
245	**EIP**	**IR4/TC4 Delivery**	**0%**	**Wed 3/18/09**	**Fri 4/10/09**
246	EIP	EIP.NMMS.CRR.Resource.Construction & UT	0%	Wed 3/18/09	Thu 4/2/09
247	EIP	EIP.NMMS.CRR.Resource.QA Test	0%	Fri 4/3/09	Thu 4/9/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
248	EIP	EIP.NMMS.CRR.Resource.Package & deploy changes for IR4/TC4 (L1-L4 Testing)	0%	Fri 4/10/09	Fri 4/10/09
249	**EIP**	**NMMS - EMS (initial deploy IR4/TC3)**	**71%**	**Mon 6/2/08**	**Fri 4/10/09**
250	EIP	EIP.NMMS.EMS.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
251	EIP	EIP.NMMS.EMS.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
252	EIP	EIP.NMMS.EMS.Resource.Construction & UT	100%	Tue 8/12/08	Tue 10/7/08
253	EIP	EIP.NMMS.EMS.Resource.Adapter Review	0%	Thu 2/5/09	Thu 2/5/09
254	EIP	EIP.NMMS.EMS.Resource.QA Test	0%	Mon 2/23/09	Fri 3/13/09
255	EIP	EIP.NMMS.EMS.Resource.Package & deploy to iTest	0%	Mon 3/16/09	Tue 3/17/09
256	**EIP**	**IR4/TC4 Delivery**	**0%**	**Wed 3/18/09**	**Fri 4/10/09**
257	EIP	EIP.NMMS.EMS.Resource.Construction & UT	0%	Wed 3/18/09	Thu 4/2/09
258	EIP	EIP.NMMS.EMS.Resource.QA Test	0%	Fri 4/3/09	Thu 4/9/09
259	EIP	EIP.NMMS.EMS.Resource.Package & deploy changes for IR4/TC4 (L1-L4 Testing)	0%	Fri 4/10/09	Fri 4/10/09
260	**EIP**	**NMMS - MIS (NMMS 5) (initial deploy IR4/TC1)**	**59%**	**Mon 6/2/08**	**Fri 4/10/09**
261	EIP	EIP.NMMS.MIS.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
262	EIP	EIP.NMMS.MIS.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
263	EIP	EIP.NMMS.MIS.Resource.Construction & UT	100%	Tue 8/12/08	Tue 10/7/08
264	EIP	EIP.NMMS.MIS.Resource.Adapter Review	0%	Wed 1/14/09	Wed 1/14/09
265	EIP	EIP.NMMS.MIS.Resource.QA Test	0%	Thu 1/15/09	Wed 1/21/09
266	EIP	EIP.NMMS.MIS.Resource.Package & deploy to iTest	0%	Thu 1/22/09	Thu 1/22/09
267	**EIP**	**IR4/TC2 Delivery**	**0%**	**Fri 1/23/09**	**Thu 2/19/09**
268	EIP	EIP.NMMS.MIS.Resource.Construction & UT	0%	Fri 1/23/09	Thu 2/12/09
269	EIP	EIP.NMMS.MIS.Resource.QA Test	0%	Fri 2/13/09	Wed 2/18/09
270	EIP	EIP.NMMS.MIS.Resource.Package & deploy changes for IR4/TC2 (????? Testing)	0%	Thu 2/19/09	Thu 2/19/09
271	**EIP**	**IR4/TC3 Delivery (NMMS 6)**	**0%**	**Fri 2/20/09**	**Mon 3/23/09**
272	EIP	EIP.NMMS.MIS.Resource.Construction & UT	0%	Fri 2/20/09	Thu 3/5/09
273	EIP	EIP.NMMS.MIS.Resource.QA Test	0%	Fri 3/6/09	Thu 3/19/09
274	EIP	EIP.NMMS.MIS.Resource.Package & deploy changes for IR4/TC3 (????? Testing)	0%	Fri 3/20/09	Mon 3/23/09
275	**EIP**	**IR4/TC4 Delivery (NMMS 7)**	**0%**	**Tue 3/24/09**	**Fri 4/10/09**
276	EIP	EIP.NMMS.MIS.Resource.Construction & UT	0%	Tue 3/24/09	Thu 4/2/09
277	EIP	EIP.NMMS.MIS.Resource.QA Test	0%	Fri 4/3/09	Thu 4/9/09
278	EIP	EIP.NMMS.MIS.Resource.Package & deploy changes for IR4/TC4 (????? Testing)	0%	Fri 4/10/09	Fri 4/10/09
279	**EIP**	**NMMS - MMS (initial deploy IR4/TC3)**	**42%**	**Mon 6/2/08**	**Fri 8/14/09**
280	EIP	EIP.NMMS.MMS.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
281	EIP	EIP.NMMS.MMS.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
282	EIP	EIP.NMMS.MMS.Resource.Construction & UT	100%	Tue 8/12/08	Tue 10/7/08

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
283	EIP	EIP.NMMS.MMS.Resource.Adapter Review	0%	Wed 2/11/09	Wed 2/11/09
284	EIP	EIP.NMMS.MMS.Resource.QA Test	0%	Mon 2/23/09	Fri 3/13/09
285	EIP	EIP.NMMS.MMS.Resource.Package & deploy to iTest	0%	Mon 3/16/09	Tue 3/17/09
286	**EIP**	**IR4/TC4 Delivery**	**0%**	**Wed 3/18/09**	**Fri 4/10/09**
287	EIP	EIP.NMMS.MMS.Resource.Construction & UT	0%	Wed 3/18/09	Thu 4/2/09
288	EIP	EIP.NMMS.MMS.Resource.QA Test	0%	Fri 4/3/09	Thu 4/9/09
289	EIP	EIP.NMMS.MMS.Resource.Package & deploy changes for IR4/TC4 (L1-L4 Testing)	0%	Fri 4/10/09	Fri 4/10/09
290	**EIP**	**IR5/TC1 Delivery**	**0%**	**Mon 4/13/09**	**Thu 7/9/09**
291	EIP	EIP.NMMS.MMS.Resource.Construction & UT	0%	Mon 4/13/09	Mon 6/8/09
292	EIP	EIP.NMMS.MMS.Resource.QA Test	0%	Tue 6/9/09	Tue 7/7/09
293	EIP	EIP.NMMS.MMS.Resource.Package & deploy changes for IR5/TC1 (Regression Testing)	0%	Wed 7/8/09	Thu 7/9/09
294	**EIP**	**IR5/TC2 Delivery**	**0%**	**Fri 7/10/09**	**Fri 8/14/09**
295	EIP	EIP.NMMS.MMS.Resource.Construction & UT	0%	Fri 7/10/09	Thu 7/30/09
296	EIP	EIP.NMMS.MMS.Resource.QA Test	0%	Fri 7/31/09	Thu 8/13/09
297	EIP	EIP.NMMS.MMS.Resource.Package & deploy changes for IR5/TC2 (Regression Testing)	0%	Fri 8/14/09	Fri 8/14/09
298	**EIP**	**NMMS - MMS.CCT (NMMS 6) (IR4/TC3)**	**44%**	**Mon 6/2/08**	**Fri 8/14/09**
299	EIP	NMMS team becomes available	100%	Mon 6/2/08	Tue 11/18/08
300	EIP	EIP.CCT.Analysis	0%	Mon 1/26/09	Fri 1/30/09
301	EIP	EIP.CCT.Design	0%	Mon 2/2/09	Wed 2/11/09
302	EIP	EIP.CCT.Construction & UT	0%	Thu 2/12/09	Wed 3/4/09
303	EIP	EIP.CCT.Resource.Adapter Review	0%	Thu 3/5/09	Fri 3/6/09
304	EIP	EIP.CCT.QA Test	0%	Mon 3/9/09	Fri 3/13/09
305	EIP	EIP.CCT.Package & deploy to iTest	0%	Mon 3/16/09	Tue 3/17/09
306	**EIP**	**IR4/TC4 Delivery**	**0%**	**Thu 3/5/09**	**Fri 4/10/09**
307	EIP	EIP.NMMS.CCT.Resource.Construction & UT	0%	Thu 3/5/09	Wed 3/25/09
308	EIP	EIP.NMMS.CCT.Resource.QA Test	0%	Thu 3/26/09	Wed 4/8/09
309	EIP	EIP.NMMS.CCT.Resource.Package & deploy changes for IR4/TC4 (L1-L4 Testing)	0%	Thu 4/9/09	Fri 4/10/09
310	**EIP**	**IR5/TC1 Delivery**	**0%**	**Mon 4/13/09**	**Thu 7/9/09**
311	EIP	EIP.NMMS.CCT.Resource.Construction & UT	0%	Mon 4/13/09	Mon 6/8/09
312	EIP	EIP.NMMS.CCT.Resource.QA Test	0%	Tue 6/9/09	Tue 7/7/09
313	EIP	EIP.NMMS.CCT.Resource.Package & deploy changes for IR5/TC1 (L1-L4 Testing)	0%	Wed 7/8/09	Thu 7/9/09
314	**EIP**	**IR5/TC2 Delivery**	**0%**	**Fri 7/10/09**	**Fri 8/14/09**
315	EIP	EIP.NMMS.CCT.Resource.Construction & UT	0%	Fri 7/10/09	Thu 7/30/09
316	EIP	EIP.NMMS.CCT.Resource.QA Test	0%	Fri 7/31/09	Thu 8/13/09
317	EIP	EIP.NMMS.CCT.Resource.Package & deploy changes for IR5/TC2 (L1-L4 Testing)	0%	Fri 8/14/09	Fri 8/14/09

ERCOT Nodal IPS

ID	Project Name	Task Name	% Complete	Start	Finish
318	**EIP**	**NMMS - OS (Initial deploy IR4/TC3)**	**0%**	**Mon 1/26/09**	**Tue 3/17/09**
319	EIP	EIP.NMMS.OS.Resource.Analysis	0%	Mon 1/26/09	Tue 2/10/09
320	EIP	EIP.NMMS.OS.Resource.Design	0%	Wed 2/11/09	Tue 2/24/09
321	EIP	EIP.NMMS.OS.Resource.Construction & UT	0%	Wed 2/25/09	Tue 3/10/09
322	EIP	EIP.NMMS.OS.Resource.Adapter Review	0%	Wed 3/11/09	Thu 3/12/09
323	EIP	EIP.NMMS.OS.Resource.QA Test	0%	Fri 3/13/09	Mon 3/16/09
324	EIP	EIP.NMMS.OS.Resource.Package & Deploy to iTest	0%	Tue 3/17/09	Tue 3/17/09
325	**EIP**	**NMMS - OS.Tracer (IR4/TC4)**	**0%**	**Wed 3/11/09**	**Fri 4/10/09**
326	EIP	EIP.NMMS.OS.Tracer.Resource.Analysis	0%	Wed 3/11/09	Tue 3/17/09
327	EIP	EIP.NMMS.OS.Tracer.Resource.Design	0%	Wed 3/18/09	Tue 3/24/09
328	EIP	EIP.NMMS.OS.Tracer.Resource.Construction & UT	0%	Wed 3/25/09	Thu 4/2/09
329	EIP	EIP.NMMS.OS.Tracer.Resource.Adapter Review	0%	Fri 4/3/09	Fri 4/3/09
330	EIP	EIP.NMMS.OS.Tracer.Resource.QA Test	0%	Mon 4/6/09	Wed 4/8/09
331	EIP	EIP.NMMS.OS.Tracer.Resource.Package & Deploy to iTest	0%	Thu 4/9/09	Fri 4/10/09
332	**EIP**	**NMMS - SnB (intial deploy IR3)**	**70%**	**Mon 6/2/08**	**Tue 3/17/09**
333	EIP	EIP.NMMS.SnB.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
334	EIP	EIP.NMMS.SnB.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
335	EIP	EIP.NMMS.SnB.Resource.Construction & UT	100%	Tue 8/12/08	Tue 10/7/08
336	EIP	EIP.NMMS.SnB.Resource.Adapter Review	100%	Wed 10/8/08	Wed 10/8/08
337	EIP	EIP.MMMS.SnB.Resource.QA Test	100%	Mon 11/3/08	Fri 11/7/08
338	EIP	EIP.NMMS.SnB.Resource.Package & deploy to iTest	100%	Mon 11/10/08	Tue 11/11/08
339	**EIP**	**IR4/TC2 Delivery**	**0%**	**Mon 1/26/09**	**Fri 2/20/09**
340	EIP	EIP.NMMS.SnB.Resource.Construction & UT	0%	Mon 1/26/09	Fri 2/13/09
341	EIP	EIP.NMMS.SnB.Resource.QA Test	0%	Mon 2/16/09	Thu 2/19/09
342	EIP	EIP.NMMS.SnB.Resource.Package & deploy changes for IR4/TC2 (????? Testing)	0%	Fri 2/20/09	Fri 2/20/09
343	**EIP**	**IR4/TC3 Delivery**	**0%**	**Mon 2/16/09**	**Tue 3/17/09**
344	EIP	EIP.NMMS.SnB.Resource.Construction & UT	0%	Mon 2/16/09	Fri 2/27/09
345	EIP	EIP.NMMS.SnB.Resource.QA Test	0%	Mon 3/2/09	Fri 3/13/09
346	EIP	EIP.NMMS.SnB.Resource.Package & deploy changes for IR4/TC3 (L1-L4 Testing)	0%	Mon 3/16/09	Tue 3/17/09
347	**EIP**	**OS - NMMS (NMMS 6) (initial deploy IR4/TC3)**	**76%**	**Mon 6/2/08**	**Fri 4/10/09**
348	EIP	EIP.OS.NMMS.Resource.Analysis	100%	Mon 6/2/08	Mon 7/7/08
349	EIP	EIP.OS.NMMS.Resource.Design	100%	Tue 7/8/08	Mon 8/11/08
350	EIP	EIP.OS.NMMS.Resource.Construction & UT	100%	Tue 8/12/08	Tue 10/7/08
351	EIP	EIP.OS.NMMS.Resource.Adapter Review	0%	Wed 3/4/09	Thu 3/5/09
352	EIP	EIP.OS.NMMS.Resource.QA Test	0%	Fri 3/6/09	Fri 3/13/09

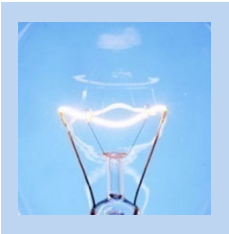
Exhibit C

Utilicast

Nodal Program Oversight Report 8

New Integrated Schedule and Budget Assessment

January 19, 2009



Scope and Approach

The objective of Nodal Market Oversight Report Number 8 is to provide an independent assessment of the new integrated schedule and associated budget. Specifically, Utilicast has been asked to provide an opinion on the following areas:

- Is the project schedule realistic and achievable given the tasks that need to be completed?
- Is the cost estimate reasonable based on the proposed workload?

The Utilicast project team, over a six week period, conducted a high level review of the Nodal Program including objectives, plan and budget to determine if ERCOT is better positioned to successfully implement the program given the new budget and schedule. To achieve this, the project team adopted the following approach:

- Confirmed the key program objectives
- Conducted a high level assessment of current state of the nodal program
- Selected a sample of three projects from the nodal program and conducted a more detailed assessment of each project's objectives, plan and budget
- Confirmed the findings and recommendations based on detailed project assessments

Findings

Review Area	Findings
What went wrong with the original schedule and budget?	• The original program was poorly estimated. • The controls in place for the original program were inadequate for the scale and complexity of the undertaking. • The Nodal Program is more complex than originally anticipated.
What is the current state of the Nodal Program and what work needs to be completed?	• ERCOT has made progress in implementing strong program controls. • There is clear ownership and accountability for the delivery of the Nodal Program at executive level. • The Program Management Office (PMO) has been restructured and has implemented project controls consistent with the complexity and scale of the program. • A Nodal Program Controllers Office has been established and cost tracking and variance analysis and reporting procedures have been implemented to improve budget transparency and improve financial reporting. • The Nodal Program has been able to make some notable progress such as generating Locational Marginal Pricing (LMPs) and conducting mock markets.
Is the new estimate a "good" estimate?	• The new Nodal Program budget of $660 million, which includes both direct and indirect costs (indirect costs include finance charges), is a reasonable "not to exceed" estimate. • The new cost-to-complete estimate may be excessive and additional optimization is possible.
Is the new schedule a "good" schedule?	• There are a number of risks that could impact the new Nodal Program schedule. These risks include: • Integration project has been identified as the highest risk to the overall Nodal Program schedule. • Scope changes may adversely impact the schedule. The Nodal Project requirements have not been finalized and locked down. • Lack of available data center space to expand the current IT infrastructure (environments). • Market Participants may extend the Early Delivery System (EDS) Process indefinitely and impact the go live schedule. • Key Nodal Program resources may be reassigned to zonal program work.

Recommendations

Review Area	Recommendations
Is the new estimate a "good" estimate?	1. The individual project budgets should be challenged in the following areas: a. Vendor contracts b. Contract staff c. Internal staff
Is the new schedule a "good" schedule?	1. Given the potential risks of the integration phase of the Nodal Program, this area should be reviewed in detail and be the subject of Oversight Committee Report 9. 2. Scope for the December 2010 release of the Nodal Program should be agreed and locked down with any proposed changes subject to a strict change control process. 3. No enhancements should be made to the zonal market applications or processes unless assessed as business critical. 4. There should be immediate investment in new data center capacity to accommodate the expansion of IT infrastructure required for the Nodal Program and continuation of zonal operations. 5. Given the risks of Market Participant not accepting "Go-live" criteria, this area should be subject to a detail review.