

Texas Nodal Market Implementation Schedule to Meet 1/1/09  
October 5, 2005 version r2

ID	Name	Start	Finish	Duration	Predecessors
1	<b>Overall Project</b>	<b>Mon 8/15/05</b>	<b>Thu 4/9/09</b>	<b>47.7 mons</b>	
2	<b>Milestones</b>	<b>Fri 1/13/06</b>	<b>Thu 1/1/09</b>	<b>38.75 mons</b>	
3	Protocol Contested Case Completion	Fri 1/13/06	Fri 1/13/06	0 days	
4	Telemetry Criteria Met	Fri 7/27/07	Fri 7/27/07	0 days	250
5	Outage Scheduler Ready	Fri 9/7/07	Fri 9/7/07	0 days	262
6	Network Model Available for MP Testing	Fri 1/11/08	Fri 1/11/08	0 days	253
7	Network Security Applications (NSA) Test Complete	Thu 4/24/08	Thu 4/24/08	0 days	310
8	SE 6-Months Stability Test Criteria Met	Fri 6/27/08	Fri 6/27/08	0 days	258
9	CRR Auction Trial Completion	Fri 9/26/08	Fri 9/26/08	0 days	321
10	SASM Market Test Completion	Thu 10/2/08	Thu 10/2/08	0 mons	335
11	SCED 6-Months Posting of LMPs Criteria Met	Thu 10/9/08	Thu 10/9/08	0 days	315
12	168-Hour Real-time Market Test Completion	Thu 11/13/08	Thu 11/13/08	0 days	341
13	Real-time Market Operation Ready	Thu 11/13/08	Thu 11/13/08	0 days	53,341
14	RUC Test Completion	Tue 12/2/08	Tue 12/2/08	0 days	332
15	DAM Test Completion	Tue 12/9/08	Tue 12/9/08	0 days	327
16	TNT Go-Live	Thu 1/1/09	Thu 1/1/09	0 days	348
17	<b>MP Tasks</b>	<b>Mon 7/3/06</b>	<b>Fri 10/3/08</b>	<b>29.5 mons</b>	
18	MP's Systems Ready for TNT Scripted Market Trial	Fri 4/25/08	Fri 4/25/08	0 days	314SS-2 mons
19	MP's Systems are Daylight Saving Time Ready	Fri 6/20/08	Fri 6/20/08	0 mons	
20	MPs to Define Field Test (Market Trials) Requirements	Mon 7/3/06	Fri 9/8/06	2.5 mons	3
21	QSE/CRR Account Holder Agreements Signed	Mon 1/7/08	Fri 10/3/08	9.75 mons	
22	<b>Project Mobilization and Planning</b>	<b>Mon 10/10/05</b>	<b>Fri 5/30/08</b>	<b>34.5 mons</b>	
23	<b>Project Mobilization</b>	<b>Mon 10/10/05</b>	<b>Fri 12/9/05</b>	<b>2.25 mons</b>	
24	Approve Start	Mon 10/10/05	Fri 10/14/05	1 wk	
25	Assign Core Project Team	Mon 10/17/05	Fri 10/21/05	1 wk	24
26	Develop Procurement Approach and Requirements	Mon 10/17/05	Fri 12/9/05	2 mons	24
27	<b>Develop Plans</b>	<b>Mon 10/17/05</b>	<b>Fri 5/30/08</b>	<b>34.25 mons</b>	
28	Develop Project Plan	Mon 10/17/05	Fri 11/11/05	1 mon	24
29	Define Architecture Approach and Requirements	Mon 10/17/05	Fri 12/9/05	2 mons	24
30	Define the Systems and Facilities Requirements	Mon 12/12/05	Fri 2/3/06	2 mons	29
31	Define ERCOT Integration Test Plan	Mon 12/12/05	Fri 2/3/06	2 mons	29
32	Define Simulation Testing Environment	Mon 2/6/06	Fri 3/31/06	2 mons	31
33	Develop Detail Test Plan with MPs	Mon 9/11/06	Fri 12/1/06	3 mons	31,20
34	ERCOT to Implement TCR to CRR Transition	Mon 1/7/08	Fri 5/30/08	5.25 mons	

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ID	Name	Start	Finish	Duration	Predecessors
35	<b>Training</b>	<b>Mon 8/15/05</b>	<b>Thu 6/19/08</b>	<b>37.2 mons</b>	
36	<b>MPs Training</b>	<b>Fri 1/13/06</b>	<b>Fri 4/25/08</b>	<b>29.75 mons</b>	
37	Develop and Conduct "How the nodal market will work"	Fri 1/13/06	Thu 4/6/06	3 mons	3
38	Develop and Conduct "MPs and ERCOT staff roles"	Fri 2/24/06	Thu 8/10/06	6 mons	116
39	Other Nodal Training Classes for MPs	Fri 5/25/07	Thu 11/8/07	6 mons	313SS-12 mons
40	Assessment of MP Personnel Readiness	Fri 4/25/08	Fri 4/25/08	0 mons	39,18
41	<b>ERCOT Training</b>	<b>Mon 8/15/05</b>	<b>Thu 6/19/08</b>	<b>37.2 mons</b>	
42	<b>Operator Training Simulator (OTS)</b>	<b>Mon 8/15/05</b>	<b>Fri 2/22/08</b>	<b>33 mons</b>	
43	Startup and Vendor Selection Process (OTS)	Mon 8/15/05	Fri 10/7/05	2 mons	
44	Update OTS Requirements for TNT	Mon 8/15/05	Fri 12/2/05	4 mons	43FF
45	SOW/Vendor Selection (OTS)	Mon 11/7/05	Fri 12/30/05	2 mons	44FS-1 mon
46	Initiation (OTS)	Mon 1/2/06	Fri 1/13/06	0.5 mons	45
47	Development OTS	Mon 1/16/06	Fri 6/1/07	18 mons	46
48	Product Testing/Vendor Site Testing (OTS)	Mon 6/4/07	Fri 8/24/07	3 mons	47
49	Vendor ship/stage/startup/verify/update with patches (OTS)	Mon 8/27/07	Fri 9/21/07	1 mon	48
50	Release /Field Testing (e.g., I-test and UAT) (OTS)	Mon 9/24/07	Fri 2/22/08	5.5 mons	49
51	ERCOT Operator Training	Mon 9/24/07	Fri 3/7/08	6 mons	50SS
52	Other ERCOT Staff Training	Fri 5/25/07	Thu 4/24/08	12 mons	313SS-12 mons
53	Assessment of ERCOT Personnel Readiness	Thu 6/19/08	Thu 6/19/08	0 mons	52,51,311
54	<b>Develop/Buildout Facilities</b>	<b>Mon 2/6/06</b>	<b>Fri 1/5/07</b>	<b>12 mons</b>	
55	Define Facility Specification	Mon 2/6/06	Fri 3/31/06	2 mons	30
56	Budget Approval/ Select Vendor/Award Contract	Mon 4/3/06	Fri 6/23/06	3 mons	55
57	Complete Facilities	Mon 6/26/06	Fri 1/5/07	7 mons	56
58	<b>Subsystem Requirements/SOW/Development/Test</b>	<b>Mon 10/17/05</b>	<b>Thu 12/6/07</b>	<b>27.95 mons</b>	
59	<b>System Operations</b>	<b>Mon 10/24/05</b>	<b>Fri 6/29/07</b>	<b>22 mons</b>	
60	<b>Network Model</b>	<b>Mon 10/24/05</b>	<b>Fri 6/1/07</b>	<b>21 mons</b>	<b>25</b>
61	Requirements finalized (Network Model)	Mon 10/24/05	Fri 12/16/05	2 mons	
62	MP Review (Network Model)	Mon 12/19/05	Fri 1/6/06	3 wks	61
63	Develop RFP (Network Model)	Mon 1/9/06	Fri 1/27/06	3 wks	62
64	Vendor proposal (Network Model)	Mon 1/30/06	Fri 3/10/06	6 wks	63
65	Select/Evaluate/Negotiate (Network Model)	Mon 3/13/06	Fri 4/21/06	6 wks	64
66	SOW for Network Model	Mon 4/24/06	Fri 5/19/06	1 mon	65
67	<b>Vendor Development</b>	<b>Mon 5/22/06</b>	<b>Fri 6/1/07</b>	<b>13.5 mons</b>	<b>66</b>
68	Conceptual Design (Network Model)	Mon 5/22/06	Fri 6/16/06	4 wks	

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69	MP Review Conceptual (Network Model)	Mon 6/19/06	Fri 6/30/06	2 wks	68
70	Detail Design (Network Model)	Mon 7/3/06	Fri 9/22/06	3 mons	69
71	MP Detail Design Review (Network Model)	Mon 10/2/06	Fri 10/13/06	2 wks	70FS+1 wk
72	Create DB for Model Testing (Network Model)	Mon 10/16/06	Fri 1/5/07	3 mons	71
73	Develop (Network Model)	Mon 10/16/06	Fri 3/30/07	6 mons	71
74	Vendor Product Test/ Problem Resolution	Mon 4/2/07	Fri 5/4/07	5 wks	73
75	FAT (Network Model)	Mon 5/7/07	Fri 6/1/07	4 wks	74
76	<b>SE/Telemetry Enhancements</b>	<b>Mon 10/24/05</b>	<b>Fri 10/6/06</b>	<b>12.5 mons</b>	<b>25</b>
77	Define SE and Telemetry Requirements	Mon 10/24/05	Fri 12/16/05	2 mons	
78	MP Review (SE/Telemetry)	Mon 12/19/05	Fri 12/30/05	2 wks	77
79	Modify SE and Telemetry Systems	Mon 1/2/06	Fri 10/6/06	10 mons	78
80	<b>Outage Scheduling</b>	<b>Mon 12/12/05</b>	<b>Fri 6/29/07</b>	<b>20.25 mons</b>	<b>25</b>
81	Requirements (Outage Scheduler)	Mon 12/12/05	Fri 1/6/06	1 mon	29FF+1 mon
82	MP Review (Outage Scheduler)	Mon 12/26/05	Fri 1/13/06	3 wks	81FF+1 wk
83	Develop RFP (Outage Scheduler)	Mon 1/9/06	Fri 1/27/06	3 wks	81
84	Vendor proposal (Outage Scheduler)	Mon 1/30/06	Fri 3/10/06	6 wks	83
85	Select/Evaluate/Negotiate (Outage Scheduler)	Mon 3/13/06	Fri 4/21/06	6 wks	84
86	SOW (Outage Scheduler)	Mon 4/24/06	Fri 5/19/06	1 mon	85
87	<b>Vendor Development</b>	<b>Mon 5/22/06</b>	<b>Fri 6/29/07</b>	<b>14.5 mons</b>	<b>86</b>
88	Conceptual Design (Outage Scheduler)	Mon 5/22/06	Fri 6/16/06	4 wks	
89	MP Review Conceptual (Outage Scheduler)	Mon 6/19/06	Fri 6/30/06	2 wks	88
90	Detail Design (Outage Scheduler)	Mon 7/3/06	Fri 8/25/06	2 mons	89
91	MP Detail Design Review (Outage Scheduler)	Mon 9/4/06	Fri 9/15/06	2 wks	90FS+1 wk
92	Develop (Outage Scheduler)	Mon 9/18/06	Fri 4/27/07	8 mons	91
93	Vendor Product Test/ Problem Resolution (Outage Scheduler)	Mon 4/30/07	Fri 5/25/07	4 wks	92
94	FAT (Outage)/Variance Resolution (Outage Scheduler)	Mon 5/28/07	Fri 6/29/07	5 wks	93
95	<b>Network Security Analysis</b>	<b>Mon 10/24/05</b>	<b>Fri 4/6/07</b>	<b>19 mons</b>	<b>25</b>
96	Requirements finalized/SOW/Vendor selection	Mon 10/24/05	Fri 5/5/06	7 mons	
97	Trans Constraints Management Enhancements	Mon 5/8/06	Fri 4/6/07	12 mons	96
98	Dynamic Ratings Processor	Mon 5/8/06	Fri 4/6/07	12 mons	96
99	Voltage / Transient Security Analysis Tool	Mon 5/8/06	Fri 4/6/07	12 mons	96
100	Load/RPP Forecast	Mon 5/8/06	Fri 10/20/06	6 mons	96
101	Study Network Analysis	Mon 5/8/06	Fri 4/6/07	12 mons	96
102	Unit compliance Modeling	Mon 5/8/06	Fri 4/6/07	12 mons	96

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ID	Name	Start	Finish	Duration	Predecessors
103	<b>Resource Parameters</b>	<b>Mon 10/24/05</b>	<b>Fri 5/5/06</b>	<b>7 mons</b>	<b>25</b>
104	Modify Asset Registration Form	Mon 10/24/05	Fri 11/18/05	1 mon	
105	MP Update Asset Registration Forms	Mon 11/21/05	Fri 5/5/06	6 mons	104
106	LFC (AGC)	Mon 5/8/06	Fri 4/6/07	12 mons	96,25
107	<b>Market Operations</b>	<b>Mon 10/17/05</b>	<b>Thu 12/6/07</b>	<b>27.95 mons</b>	
108	<b>Preliminary Requirements Develop (Market Ops)</b>	<b>Mon 10/17/05</b>	<b>Fri 12/30/05</b>	<b>2.75 mons</b>	
109	Day Ahead/AS/COP Preliminary Market Requirements	Mon 10/17/05	Fri 12/30/05	2.75 mons	24
110	Supplemental AS Preliminary Market Requirements	Mon 10/17/05	Fri 12/30/05	2.75 mons	24
111	Reliability Units Commitment Preliminary Market Requirements	Mon 10/17/05	Fri 12/30/05	2.75 mons	24
112	Real-time Preliminary Market Requirements	Mon 10/17/05	Fri 12/30/05	2.75 mons	24
113	CRR Auction Engine Preliminary Market Requirements	Mon 10/17/05	Fri 12/30/05	2.75 mons	24
114	<b>Day Ahead / AS Market/Current Operating Plan (COP)</b>	<b>Fri 1/13/06</b>	<b>Thu 12/6/07</b>	<b>24.75 mons</b>	<b>25</b>
115	Requirements (DA/AS/COP)	Fri 1/13/06	Thu 2/16/06	5 wks	3,109
116	MP Review (DA/AS/COP)	Fri 2/3/06	Thu 2/23/06	3 wks	115FF+1 wk
117	Develop RFP (DA/AS/COP)	Fri 2/17/06	Thu 3/9/06	3 wks	115
118	Vendor proposal (DA/AS/COP)	Fri 3/10/06	Thu 4/20/06	6 wks	117
119	Select/Evaluate/Negotiate (DA/AS/COP)	Fri 4/21/06	Thu 6/1/06	6 wks	118
120	SOW (DA/AS/COP)	Fri 5/19/06	Thu 7/13/06	2 mons	119FS-2 wks
121	<b>Vendor Development (DA/AS/COP)</b>	<b>Fri 7/14/06</b>	<b>Thu 12/6/07</b>	<b>18.25 mons</b>	<b>120</b>
122	Conceptual Design (DA/AS/COP)	Fri 7/14/06	Thu 10/5/06	3 mons	
123	MP Review Conceptual (DA/AS/COP)	Fri 10/6/06	Thu 10/26/06	3 wks	122
124	Detail Design (DA/AS/COP)	Fri 10/27/06	Thu 1/18/07	3 mons	123
125	MP Detail Design Review (DA/AS/COP)	Fri 1/26/07	Thu 2/15/07	3 wks	124FS+1 wk
126	Develop (DA/AS/COP)	Fri 2/16/07	Thu 8/30/07	7 mons	125
127	Vendor Product Test/ Problem Resolution (DA/AS/COP)	Fri 8/31/07	Thu 9/27/07	4 wks	126
128	FAT (DA/AS/COP)	Fri 9/28/07	Thu 12/6/07	2.5 mons	127
129	<b>Supplemental AS Market</b>	<b>Fri 1/13/06</b>	<b>Thu 12/6/07</b>	<b>24.75 mons</b>	<b>25</b>
130	Finalize Requirements (Supplemental AS)	Fri 1/13/06	Thu 2/16/06	5 wks	3,110
131	MP Review (Supplemental AS)	Fri 2/3/06	Thu 2/23/06	3 wks	130FF+1 wk
132	Develop RFP (Supplemental AS)	Fri 2/17/06	Thu 3/9/06	3 wks	130
133	Vendor proposal (Supplemental AS)	Fri 3/10/06	Thu 4/20/06	6 wks	132
134	Select/Evaluate/Negotiate (Supplemental AS)	Fri 4/21/06	Thu 6/1/06	6 wks	133
135	SOW (Supplemental AS)	Fri 5/19/06	Thu 7/13/06	2 mons	134FS-2 wks
136	<b>Vendor Development (Supplemental AS)</b>	<b>Fri 7/14/06</b>	<b>Thu 12/6/07</b>	<b>18.25 mons</b>	<b>135</b>

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137	Conceptual Design (Supplemental AS)	Fri 7/14/06	Thu 10/5/06	3 mons	
138	MP Review Conceptual (Supplemental AS)	Fri 10/6/06	Thu 10/26/06	3 wks	137
139	Detail Design (Supplemental AS)	Fri 10/27/06	Thu 1/18/07	3 mons	138
140	MP Detail Design Review (Supplemental AS)	Fri 1/26/07	Thu 2/15/07	3 wks	139FS+1 wk
141	Develop (Supplemental AS)	Fri 2/16/07	Thu 8/30/07	7 mons	140
142	Vendor Product Test/ Problem Resolution	Fri 8/31/07	Thu 9/27/07	4 wks	141
143	FAT (Supplemental AS)	Fri 9/28/07	Thu 12/6/07	2.5 mons	142
144	<b>Reliability Unit Commitment (RUC)</b>	<b>Fri 1/13/06</b>	<b>Thu 12/6/07</b>	<b>24.75 mons</b>	<b>25</b>
145	Finalize Requirements (RUC)	Fri 1/13/06	Thu 2/16/06	5 wks	3,111
146	MP Review (RUC)	Fri 2/3/06	Thu 2/23/06	3 wks	145FF+1 wk
147	Develop RFP (RUC)	Fri 2/17/06	Thu 3/9/06	3 wks	145
148	Vendor proposal (RUC)	Fri 3/10/06	Thu 4/20/06	6 wks	147
149	Select/Evaluate/Negotiate (RUC)	Fri 4/21/06	Thu 6/1/06	6 wks	148
150	SOW (RUC)	Fri 5/19/06	Thu 7/13/06	2 mons	149FS-2 wks
151	<b>Vendor Development (RUC)</b>	<b>Fri 7/14/06</b>	<b>Thu 12/6/07</b>	<b>18.25 mons</b>	<b>150</b>
152	Conceptual Design (RUC)	Fri 7/14/06	Thu 10/5/06	3 mons	
153	MP Review Conceptual (RUC)	Fri 10/6/06	Thu 10/26/06	3 wks	152
154	Detail Design (RUC)	Fri 10/27/06	Thu 1/18/07	3 mons	153
155	MP Detail Design Review (RUC)	Fri 1/26/07	Thu 2/15/07	3 wks	154FS+1 wk
156	Develop (RUC)	Fri 2/16/07	Thu 8/30/07	7 mons	155
157	Vendor Product Test/ Problem Resolution	Fri 8/31/07	Thu 9/27/07	4 wks	156
158	FAT (RUC)	Fri 9/28/07	Thu 12/6/07	2.5 mons	157
159	<b>Real-time Market</b>	<b>Fri 1/13/06</b>	<b>Thu 12/6/07</b>	<b>24.75 mons</b>	<b>25</b>
160	Finalize Requirements (RT Market)	Fri 1/13/06	Thu 2/16/06	5 wks	3,112
161	MP Review (RT Market)	Fri 2/3/06	Thu 2/23/06	3 wks	160FF+1 wk
162	Develop RFP (RT Market)	Fri 2/17/06	Thu 3/9/06	3 wks	160
163	Vendor proposal (RT Market)	Fri 3/10/06	Thu 4/20/06	6 wks	162
164	Select/Evaluate/Negotiate (RT Market)	Fri 4/21/06	Thu 6/1/06	6 wks	163
165	SOW (RT Market)	Fri 5/19/06	Thu 7/13/06	2 mons	164FS-2 wks
166	<b>Vendor Development (RT Market)</b>	<b>Fri 7/14/06</b>	<b>Thu 12/6/07</b>	<b>18.25 mons</b>	<b>165</b>
167	Conceptual Design (RT Market)	Fri 7/14/06	Thu 10/5/06	3 mons	
168	MP Review Conceptual (RT Market)	Fri 10/6/06	Thu 10/26/06	3 wks	167
169	Detail Design (RT Market)	Fri 10/27/06	Thu 1/18/07	3 mons	168
170	MP Detail Design Review (RT Market)	Fri 1/26/07	Thu 2/15/07	3 wks	169FS+1 wk

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171	Develop (RT Market)	Fri 2/16/07	Thu 8/30/07	7 mons	170
172	Vendor Product Test/ Problem Resolution	Fri 8/31/07	Thu 9/27/07	4 wks	171
173	FAT (RT Market)	Fri 9/28/07	Thu 12/6/07	2.5 mons	172
174	<b>CRR Auction Engine</b>	<b>Fri 1/13/06</b>	<b>Thu 7/26/07</b>	<b>20 mons</b>	<b>25</b>
175	Finalize Requirements (CRR Auction Engine)	Fri 1/13/06	Thu 2/9/06	1 mon	3,113
176	MP Review (CRR Auction Engine)	Fri 1/27/06	Thu 2/16/06	3 wks	175FF+1 wk
177	Develop RFP (CRR Auction Engine)	Fri 2/10/06	Thu 3/2/06	3 wks	175
178	Vendor proposal (CRR Auction Engine)	Fri 3/3/06	Thu 4/13/06	6 wks	177
179	Select/Evaluate/Negotiate (CRR Auction Engine)	Fri 4/14/06	Thu 5/25/06	6 wks	178
180	SOW (CRR Auction Engine)	Fri 5/26/06	Thu 6/22/06	1 mon	179
181	<b>Vendor Development</b>	<b>Fri 6/23/06</b>	<b>Thu 7/26/07</b>	<b>14.25 mons</b>	<b>180</b>
182	Conceptual Design (CRR Auction Engine)	Fri 6/23/06	Thu 7/20/06	4 wks	
183	MP Review Conceptual (CRR Auction Engine)	Fri 7/21/06	Thu 8/3/06	2 wks	182
184	Detail Design (CRR Auction Engine)	Fri 8/4/06	Thu 9/28/06	2 mons	183
185	MP Detail Design Review (CRR Auction Engine)	Fri 10/6/06	Thu 10/19/06	2 wks	184FS+1 wk
186	Develop (CRR Auction Engine)	Fri 10/20/06	Thu 5/31/07	8 mons	185
187	Vendor Product Test/ Problem Resolution	Fri 6/1/07	Thu 6/28/07	4 wks	186
188	FAT (CRR Auction Engine)	Fri 6/29/07	Thu 7/26/07	4 wks	187
189	<b>Commercial Operations</b>	<b>Fri 1/13/06</b>	<b>Thu 11/22/07</b>	<b>24.25 mons</b>	
190	<b>Lodestar</b>	<b>Fri 1/13/06</b>	<b>Thu 11/22/07</b>	<b>24.25 mons</b>	<b>25</b>
191	Startup and Contractor Selection Process	Fri 1/13/06	Thu 3/9/06	2 mons	3
192	Requirements	Fri 3/10/06	Thu 6/29/06	4 mons	191
193	SOW/Vendor Selection	Fri 3/10/06	Thu 5/4/06	2 mons	192SS
194	Initiation	Fri 5/5/06	Thu 5/18/06	0.5 mons	193
195	Planning (CSD/DSD)	Fri 5/19/06	Thu 8/10/06	3 mons	194
196	Development	Fri 2/16/07	Thu 7/5/07	5 mons	195,126SS
197	Product Testing/Vendor Site Testing	Fri 7/6/07	Thu 11/22/07	5 mons	196
198	<b>MOS2L*</b>	<b>Fri 1/13/06</b>	<b>Thu 7/5/07</b>	<b>19.25 mons</b>	<b>25</b>
199	Startup and Vendor Selection Process	Fri 1/13/06	Thu 2/9/06	1 mon	3
200	Requirements	Fri 5/19/06	Thu 7/27/06	2.5 mons	192FF+1 mon
201	SOW/Vendor Selection	Fri 6/30/06	Fri 6/30/06	0 days	200FS-1 mon
202	Initiation	Fri 6/30/06	Thu 7/13/06	0.5 mons	201
203	Planning (CSD/DSD)	Fri 7/14/06	Thu 8/10/06	1 mon	202
204	Development	Fri 2/16/07	Thu 4/26/07	2.5 mons	203,126SS

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205	Product Testing/Vendor Site Testing	Fri 4/27/07	Thu 7/5/07	2.5 mons	204
206	<b>EDW/DA</b>	<b>Fri 7/14/06</b>	<b>Thu 11/29/07</b>	<b>18 mons</b>	
207	Startup and Vendor Selection Process	Fri 7/14/06	Thu 8/10/06	1 mon	25,122SS
208	Requirements	Fri 7/14/06	Thu 11/30/06	5 mons	207SS
209	SOW/Vendor Selection	Fri 11/3/06	Thu 12/28/06	2 mons	208FS-1 mon
210	Initiation	Fri 12/29/06	Thu 1/11/07	0.5 mons	209
211	Planning (CSD/DSD)	Fri 1/12/07	Thu 4/5/07	3 mons	210
212	Development	Fri 4/6/07	Thu 9/20/07	6 mons	211
213	Product Testing/Vendor Site Testing	Fri 9/21/07	Thu 11/29/07	2.5 mons	212
214	<b>Market Information System (MIS)</b>	<b>Fri 10/27/06</b>	<b>Thu 11/22/07</b>	<b>14 mons</b>	
215	Startup and Vendor Selection Process	Fri 10/27/06	Thu 11/9/06	0.5 mons	25,3,123
216	Requirements	Fri 10/27/06	Thu 12/21/06	2 mons	215SS
217	SOW/Vendor Selection	Fri 12/22/06	Thu 1/18/07	1 mon	216
218	Initiation	Fri 1/19/07	Thu 2/1/07	0.5 mons	217
219	Planning (CSD/DSD)	Fri 2/2/07	Thu 4/12/07	2.5 mons	218
220	Development	Fri 4/13/07	Thu 8/30/07	5 mons	219
221	Product Testing/Vendor Site Testing	Fri 8/31/07	Thu 11/22/07	3 mons	220
222	<b>Finance Systems (Credit Monitoring System)</b>	<b>Fri 10/27/06</b>	<b>Thu 10/25/07</b>	<b>13 mons</b>	
223	Requirements (Credit Monitoring System)	Fri 10/27/06	Thu 11/9/06	2 wks	3,25,123
224	MP Review (Credit Monitoring System)	Fri 11/3/06	Thu 11/16/06	2 wks	223FF+1 wk
225	Develop RFP (Credit Monitoring System)	Fri 11/10/06	Thu 11/23/06	2 wks	223
226	Vendor Proposal (Credit Monitoring System)	Fri 11/24/06	Thu 12/14/06	3 wks	225
227	Select/Evaluate/Negotiate (Credit Monitoring System)	Fri 12/15/06	Thu 1/4/07	3 wks	226
228	SOW (Credit Monitoring System)	Fri 1/5/07	Thu 2/1/07	1 mon	227
229	<b>Vendor Development</b>	<b>Fri 2/2/07</b>	<b>Thu 10/25/07</b>	<b>9.5 mons</b>	
230	Conceptual Design (Credit Monitoring System)	Fri 2/2/07	Thu 3/1/07	4 wks	228
231	MP Review Conceptual (Credit Monitoring System)	Fri 3/2/07	Thu 3/15/07	2 wks	230
232	Detail Design (Credit Monitoring System)	Fri 3/16/07	Thu 5/10/07	2 mons	231
233	MP Detail Design Review (Credit Monitoring System)	Fri 5/18/07	Thu 5/31/07	2 wks	232FS+1 wk
234	Develop (Credit Monitoring System)	Fri 6/1/07	Thu 9/20/07	4 mons	233
235	Vendor Product Test/ Problem Resolution	Fri 9/21/07	Thu 10/11/07	3 wks	234
236	FAT (Credit Monitoring System)	Fri 10/12/07	Thu 10/25/07	2 wks	235
237	<b>PUCT Market Operations Monitoring System (MOMS)</b>	<b>Fri 2/16/07</b>	<b>Thu 11/22/07</b>	<b>10 mons</b>	
238	Develop Requirements	Fri 2/16/07	Thu 5/10/07	3 mons	25,125

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ID	Name	Start	Finish	Duration	Predecessors
239	Build Extracts	Fri 5/11/07	Thu 9/27/07	5 mons	238
240	Validate and test	Fri 9/28/07	Thu 11/22/07	2 mons	239
241	<b>Compliance and Performance Monitoring</b>	<b>Fri 2/16/07</b>	<b>Thu 11/22/07</b>	<b>10 mons</b>	
242	Develop Requirements	Fri 2/16/07	Thu 5/10/07	3 mons	25,125
243	Build Extracts	Fri 5/11/07	Thu 9/27/07	5 mons	242
244	Validate and Test	Fri 9/28/07	Thu 11/22/07	2 mons	243
245	<b>Subsystems/System Staging and Product Test</b>	<b>Mon 1/8/07</b>	<b>Thu 11/6/08</b>	<b>23.95 mons</b>	
246	IT Buildout / Staging (As needed)	Mon 1/8/07	Fri 4/27/07	4 mons	57,29
247	<b>System Operations Site Tests</b>	<b>Mon 4/30/07</b>	<b>Thu 11/6/08</b>	<b>19.95 mons</b>	
248	<b>Network Model</b>	<b>Mon 6/4/07</b>	<b>Fri 6/27/08</b>	<b>14 mons</b>	
249	Vendor ship/stage/startup/verify/update with patches	Mon 6/4/07	Fri 6/29/07	4 wks	75,246
250	Product Field Test	Mon 7/2/07	Fri 7/27/07	4 wks	249
251	Forklift Database (ERCOT)	Mon 7/30/07	Fri 10/19/07	3 mons	250
252	Clean Up DB	Mon 10/22/07	Fri 1/11/08	3 mons	251
253	Network Model Available to MPs for Testing	Fri 1/11/08	Fri 1/11/08	0 mons	252
254	Verify Database and MP Testing	Mon 1/14/08	Fri 6/27/08	6 mons	252
255	<b>State Estimator/Telemetry</b>	<b>Mon 4/30/07</b>	<b>Fri 6/27/08</b>	<b>15.25 mons</b>	
256	Test Topology Consistency Analyzer	Mon 4/30/07	Fri 10/12/07	6 mons	246,79
257	Verify Accuracy of Telemetry	Mon 4/30/07	Fri 10/12/07	6 mons	246,79
258	Verify and test State Estimator (6-Months Test)	Mon 1/14/08	Fri 6/27/08	6 mons	257,256,252
259	<b>Outage Installation</b>	<b>Mon 7/2/07</b>	<b>Fri 9/7/07</b>	<b>2.5 mons</b>	
260	Vendor ship/stage/startup/verify/update with patches	Mon 7/2/07	Fri 7/27/07	4 wks	94,246
261	Product Field Test	Mon 7/30/07	Fri 8/10/07	2 wks	260
262	MP Integration Testing (Outages)	Mon 8/13/07	Fri 9/7/07	4 wks	261
263	<b>Network Security Analysis Installation</b>	<b>Mon 4/30/07</b>	<b>Fri 6/22/07</b>	<b>2 mons</b>	
264	Vendor ship/stage/startup/verify/update with patches	Mon 4/30/07	Fri 5/25/07	1 mon	246,95
265	Product Field Test	Mon 5/28/07	Fri 6/22/07	1 mon	264
266	Resource Parameters (Accurately Passed To RUC/DAM)	Fri 4/25/08	Thu 7/17/08	3 mons	105,246,310
267	<b>LFC</b>	<b>Mon 4/30/07</b>	<b>Thu 11/6/08</b>	<b>19.95 mons</b>	
268	Vendor ship/stage/startup/verify/update with patches	Mon 4/30/07	Fri 5/25/07	4 wks	106,246
269	Product Field Test	Mon 5/28/07	Fri 6/15/07	3 wks	268
270	LFC QSE Qualification Tests	Fri 4/25/08	Thu 10/9/08	6 mons	269,310
271	LFC QSE Deployment Testing	Fri 10/10/08	Thu 11/6/08	1 mon	270
272	QSE Constant Frequency Tests	Fri 4/25/08	Thu 11/6/08	7 mons	270SS



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ID	Name	Start	Finish	Duration	Predecessors
273	<b>Market Operations Site Tests</b>	<b>Fri 7/27/07</b>	<b>Thu 1/31/08</b>	<b>6.75 mons</b>	
274	<b>Day Ahead/AS/COP Site Tests</b>	<b>Fri 12/7/07</b>	<b>Thu 1/31/08</b>	<b>2 mons</b>	
275	Vendor ship/stage/startup/verify/update with patches	Fri 12/7/07	Thu 1/3/08	1 mon	128,246
276	Product Field Test (DA/AS/COP)	Fri 1/4/08	Thu 1/31/08	1 mon	275
277	<b>Supplemental AS Installation</b>	<b>Fri 12/7/07</b>	<b>Thu 1/31/08</b>	<b>2 mons</b>	
278	Vendor ship/stage/startup/verify/update with patches	Fri 12/7/07	Thu 1/3/08	1 mon	143,246
279	Product Field Test (Supplemental AS)	Fri 1/4/08	Thu 1/31/08	1 mon	278
280	<b>Reliability Unit Commitment Installation</b>	<b>Fri 12/7/07</b>	<b>Thu 1/31/08</b>	<b>2 mons</b>	
281	Vendor ship/stage/startup/verify/update with patches	Fri 12/7/07	Thu 1/3/08	1 mon	158,246
282	Product Field Test (RUC)	Fri 1/4/08	Thu 1/31/08	1 mon	281
283	<b>Real-time Market Installation</b>	<b>Fri 12/7/07</b>	<b>Thu 1/31/08</b>	<b>2 mons</b>	
284	Vendor ship/stage/startup/verify/update with patches	Fri 12/7/07	Thu 1/3/08	1 mon	173,246
285	MPs create and enter offer curves	Fri 12/7/07	Thu 1/3/08	1 mon	173,246
286	Product Field Test (Real-time Market)	Fri 1/4/08	Thu 1/31/08	1 mon	285
287	<b>CRR Installation</b>	<b>Fri 7/27/07</b>	<b>Thu 8/23/07</b>	<b>1 mon</b>	
288	Vendor ship/stage/startup/verify/update with patches	Fri 7/27/07	Thu 8/9/07	0.5 mons	188,246
289	Product Field Test	Fri 8/10/07	Thu 8/23/07	2 wks	288
290	<b>Commercial Systems Site Tests</b>	<b>Fri 11/23/07</b>	<b>Thu 12/6/07</b>	<b>0.5 mons</b>	
291	Handover from ERCOT development	Fri 11/23/07	Thu 12/6/07	0.5 mons	246,197,205
292	Product Field Test	Thu 12/6/07	Thu 12/6/07	0 mons	291
293	<b>EDW/DA Site Tests</b>	<b>Fri 11/30/07</b>	<b>Thu 1/10/08</b>	<b>1.5 mons</b>	
294	Vendor ship/stage/startup/verify/update with patches	Fri 11/30/07	Thu 12/27/07	4 wks	213,246
295	Product Field Test	Fri 12/28/07	Thu 1/10/08	2 wks	294
296	<b>MIS Tests</b>	<b>Fri 11/23/07</b>	<b>Thu 1/3/08</b>	<b>1.5 mons</b>	
297	Vendor ship/stage/startup/verify/update with patches	Fri 11/23/07	Thu 12/20/07	4 wks	221,246
298	Product Field Test	Fri 12/21/07	Thu 1/3/08	2 wks	297
299	<b>Finance Systems Site Tests</b>	<b>Fri 10/26/07</b>	<b>Thu 12/6/07</b>	<b>1.5 mons</b>	
300	Vendor ship/stage/startup/verify/update with patches	Fri 10/26/07	Thu 11/22/07	4 wks	236,246
301	Product Field Test	Fri 11/23/07	Thu 12/6/07	2 wks	300
302	<b>PUCT MOMS Site Tests</b>	<b>Fri 11/23/07</b>	<b>Thu 1/3/08</b>	<b>1.5 mons</b>	
303	Vendor ship/stage/startup/verify/update with patches	Fri 11/23/07	Thu 12/20/07	4 wks	240,246
304	Product Field Test	Fri 12/21/07	Thu 1/3/08	2 wks	303
305	<b>Compliance and Performance Monitoring Site Test</b>	<b>Fri 11/23/07</b>	<b>Thu 1/3/08</b>	<b>1.5 mons</b>	
306	Vendor ship/stage/startup/verify/update with patches	Fri 11/23/07	Thu 12/20/07	4 wks	244

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307	Product Field Test	Fri 12/21/07	Thu 1/3/08	2 wks	306
308	<b>ERCOT System Integration Tests</b>	<b>Fri 2/1/08</b>	<b>Thu 7/17/08</b>	<b>6 mons</b>	
309	Preparation/Coordination	Fri 2/1/08	Thu 2/28/08	1 mon	34,292,276,279,282
310	System Integration Testing	Fri 2/29/08	Thu 4/24/08	2 mons	309
311	Internal User Testing	Fri 3/28/08	Thu 6/19/08	3 mons	310SS+1 mon
312	Daylight Saving Time Tests (DST)	Fri 6/20/08	Thu 7/17/08	1 mon	311
313	<b>Market Trials Parallel Operations</b>	<b>Fri 4/25/08</b>	<b>Tue 12/9/08</b>	<b>8.15 mons</b>	
314	Simulation (Scripted)	Fri 6/20/08	Thu 9/11/08	3 mons	311
315	SCED 6-Months Posting of LMPs Test	Fri 4/25/08	Thu 10/9/08	6 mons	310
316	<b>Simulation (MP driven inputs)</b>	<b>Mon 6/30/08</b>	<b>Tue 12/9/08</b>	<b>5.85 mons</b>	
317	<b>CRR</b>	<b>Mon 6/30/08</b>	<b>Fri 9/26/08</b>	<b>3.25 mons</b>	
318	Assign Test CRRs	Mon 6/30/08	Fri 7/25/08	1 mon	254
319	MP Create Test Bids	Mon 7/28/08	Fri 8/1/08	1 wk	318
320	ERCOT Test Setup	Mon 8/4/08	Fri 9/12/08	6 wks	319
321	Run Trial Auction (Monthly, Seasonal and Annual)	Mon 9/15/08	Fri 9/26/08	2 wks	320
322	<b>DAM/AS</b>	<b>Mon 9/29/08</b>	<b>Tue 12/9/08</b>	<b>2.6 mons</b>	<b>321</b>
323	MP Create Test Bid and Offers	Mon 9/29/08	Fri 10/3/08	1 wk	
324	ERCOT Setup Tests	Mon 10/6/08	Fri 10/17/08	2 wks	323
325	Run DAM w/o Virtual Bids and Offers	Mon 10/20/08	Fri 11/7/08	3 wks	324
326	Run DAM with Virtual Bids and Offers	Mon 11/10/08	Fri 11/28/08	3 wks	325
327	Publish Settlement Statements	Mon 12/1/08	Tue 12/9/08	7 days	326
328	<b>RUC</b>	<b>Mon 9/29/08</b>	<b>Tue 12/2/08</b>	<b>2.35 mons</b>	<b>321</b>
329	MP Create Test Offers	Mon 9/29/08	Fri 10/3/08	1 wk	
330	ERCOT to Setup Test	Mon 10/6/08	Fri 10/17/08	2 wks	329
331	Run RUC	Mon 10/20/08	Fri 11/21/08	5 wks	330
332	Publish Settlement Statement	Mon 11/24/08	Tue 12/2/08	7 days	331
333	<b>Supplemental AS (SASM)</b>	<b>Fri 9/12/08</b>	<b>Thu 10/23/08</b>	<b>1.5 mons</b>	<b>314</b>
334	MP Create Test Offers	Fri 9/12/08	Thu 9/18/08	1 wk	
335	ERCOT to Setup Test	Fri 9/19/08	Thu 10/2/08	2 wks	334
336	Run SASM	Fri 10/3/08	Thu 10/23/08	3 wks	335
337	<b>Real-Time Market</b>	<b>Fri 9/12/08</b>	<b>Thu 11/13/08</b>	<b>2.25 mons</b>	<b>314</b>
338	MP Create Test Offers	Fri 9/12/08	Thu 9/18/08	1 wk	
339	ERCOT To Setup Test	Fri 9/19/08	Thu 10/2/08	2 wks	338
340	168 HourTest	Fri 10/3/08	Thu 11/6/08	5 wks	339

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ID	Name	Start	Finish	Duration	Predecessors
341	Publish Settlement Statement	Fri 11/7/08	Thu 11/13/08	1 wk	340
342	<b>Cutover (Migration) Tests</b>	<b>Mon 1/7/08</b>	<b>Thu 1/1/09</b>	<b>12.95 mons</b>	
343	Develop Cutover Plan	Mon 1/7/08	Fri 2/29/08	2 mons	
344	MP Approval of Cutover Plan	Mon 3/3/08	Fri 3/28/08	1 mon	343
345	Prepare for Cutover/Simulate Cutover	Fri 9/12/08	Thu 12/4/08	3 mons	344,314
346	Perform Cutover	Wed 12/10/08	Thu 1/1/09	17 days	258,315,21,254,266
347	<b>Post Go Live/Availability Test</b>	<b>Thu 1/1/09</b>	<b>Thu 4/9/09</b>	<b>3.5 mons</b>	
348	TNT Cutover Complete	Thu 1/1/09	Thu 1/1/09	0 mons	342
349	System Initial Operation	Fri 1/2/09	Thu 2/26/09	2 mons	342
350	Availability Test	Fri 2/27/09	Thu 4/9/09	1.5 mons	349