

5005 Q4 2013: Engineering Ops Project Plan																		
ID	Task Name	% Complete	Duration	Start	Finish	Qtr 4	2012				2013				2014			
							Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1	Engineering & Operations Day 2 to N	44%	545 days	Fri 30/03/12	Mon 09/06/14													
2	Engineering & Operations Discovery & Definition	100%	363 days	Fri 30/03/12	Tue 17/09/13													
3	Project Initiation	100%	3 days	Fri 30/03/12	Tue 03/04/12													
4	Project Kickoff Meeting	100%	1 day	Fri 30/03/12	Fri 30/03/12													
5	ArcFM Solution Functional Overview (Gas)	100%	2 days	Mon 02/04/12	Tue 03/04/12													
6	ArcFM Solution Functional Overview (Electric)	100%	2 days	Mon 02/04/12	Tue 03/04/12													
7	Workshops	100%	66 days	Mon 09/04/12	Wed 11/07/12													
8	ArcFM/Designer/Workflow Manager Workshops (Gas)	100%	4 days	Mon 09/04/12	Thu 12/04/12													
9	Business Process Diagrams (Gas)	100%	1 day	Mon 30/04/12	Mon 30/04/12													
10	ArcFM/Designer/Workflow Manager Workshops (Electric)	100%	4 days	Mon 16/04/12	Thu 19/04/12													
11	Business Process Diagrams (Electric)	100%	1 day	Mon 30/04/12	Mon 30/04/12													
12	Responder Workshops (Electric)	100%	2 days	Wed 09/05/12	Thu 10/05/12													
13	Responder Workshops (Electric) Notes	100%	1 day	Fri 11/05/12	Fri 11/05/12													
14	SCADA Workshops (Gas)	100%	2 days	Tue 22/05/12	Wed 23/05/12													
15	SCADA Workshops (Gas) Notes	100%	1 day	Thu 24/05/12	Thu 24/05/12													
16	SCADA Workshops (Electric) Notes	100%	1 day	Thu 24/05/12	Thu 24/05/12													
17	System Architecture Workshop (Gas)	100%	1 day	Tue 10/07/12	Tue 10/07/12													
18	System Architecture Workshop (Electric)	100%	1 day	Tue 10/07/12	Tue 10/07/12													
19	System Architecture Workshops (Gas & Electric) Notes	100%	1 day	Wed 11/07/12	Wed 11/07/12													
20	MDM Workshops	100%	2 days	Mon 11/06/12	Tue 12/06/12													
21	MDM Workshop Notes	100%	1 day	Wed 13/06/12	Wed 13/06/12													
22	Gaps, Integrations & Requirements Verified	100%	1 day	Fri 22/06/12	Fri 22/06/12													
23	Requirements Documentation (Gas)	100%	27 days	Mon 25/06/12	Wed 01/08/12													
24	Telvent Compilation of Requirements Document (Gas)	100%	5 days	Mon 25/06/12	Fri 29/06/12													
25	Delivery of Draft Requirements Document (Gas)	100%	0 days	Fri 29/06/12	Fri 29/06/12													
26	Requirements Document (Gas) Review by Liberty	100%	2 days	Tue 03/07/12	Wed 04/07/12													
27	Requirements Document (Gas) Review Meeting	100%	1 day	Thu 05/07/12	Thu 05/07/12													
28	Telvent Inclusion of Requirements Revisions (Gas)	100%	17 days	Fri 06/07/12	Mon 30/07/12													
29	Liberty Review of Requirements Revisions (Gas)	100%	2 days	Tue 31/07/12	Wed 01/08/12													
30	Liberty Acceptance of Requirements Document (Gas)	100%	0 days	Wed 01/08/12	Wed 01/08/12													
31	Requirements Documentation (Electric)	100%	27 days	Mon 25/06/12	Wed 01/08/12													
32	Telvent Compilation of Requirements Document (Electric)	100%	5 days	Mon 25/06/12	Fri 29/06/12													
33	Delivery of Draft Requirements Document (Electric)	100%	0 days	Fri 29/06/12	Fri 29/06/12													
34	Requirements Document (Electric) Review by Liberty	100%	2 days	Tue 03/07/12	Wed 04/07/12													
35	Requirements Document (Electric) Review Meeting	100%	1 day	Thu 05/07/12	Thu 05/07/12													
36	Telvent Inclusion of Requirements Revisions (Electric)	100%	17 days	Fri 06/07/12	Mon 30/07/12													
37	Liberty Review of Requirements Revisions (Electric)	100%	2 days	Tue 31/07/12	Wed 01/08/12													
38	Liberty Acceptance of Requirements Document (Electric)	100%	0 days	Wed 01/08/12	Wed 01/08/12													
39	Statement of Work Documentation	100%	288 days	Tue 03/07/12	Tue 03/09/13													
40	Telvent Compilation of SOW Document	100%	5 days	Tue 03/07/12	Mon 09/07/12													
41	Delivery of SOW Documents	100%	0 days	Mon 09/07/12	Mon 09/07/12													
42	Review of SoW Documents by Liberty	100%	230 days	Tue 10/07/12	Fri 14/06/13													
43	Telvent Inclusion of SOW Revisions	100%	220 days	Tue 24/07/12	Fri 14/06/13													
44	SOW Final Revisions	100%	244 days	Wed 05/09/12	Tue 03/09/13													
45	Liberty Review of SOW Final Revisions (SCADA)	100%	2 days	Wed 05/09/12	Thu 06/09/12													
46	Liberty Acceptance of SOW (SCADA)	100%	0 days	Mon 17/12/12	Mon 17/12/12													
47	Liberty Review of SOW Final Revisions (ArcFM)	100%	2 days	Mon 10/09/12	Tue 11/09/12													
48	Liberty Acceptance of SOW (ArcFM)	100%	0 days	Mon 17/12/12	Mon 17/12/12													
49	Liberty Review of SOW Final Revisions (Designer)	100%	2 days	Fri 30/08/13	Tue 03/09/13													
50	Liberty Acceptance of SOW (Designer)	100%	0 days	Tue 03/09/13	Tue 03/09/13													
51	Liberty Review of SOW Final Revisions (Responder)	100%	2 days	Fri 30/08/13	Tue 03/09/13													
52	Liberty Acceptance of SOW (Responder)	100%	0 days	Tue 03/09/13	Tue 03/09/13													
53	Acquire Sample Data	100%	112 days	Fri 11/05/12	Mon 22/10/12													
54	GE Smallworld Sample Data from NG (Electric)	100%	1 day	Fri 11/05/12	Fri 11/05/12													
55	ArcFM Sample Data from NG (Gas)	100%	1 day	Fri 11/05/12	Fri 11/05/12													
56	GE Smallworld Sample Data to Telvent (Electric)	100%	1 day	Wed 16/05/12	Wed 16/05/12													
57	ArcFM Sample Data to Telvent (Gas)	100%	1 day	Wed 16/05/12	Wed 16/05/12													
58	ArcFM Symbology (Gas)	100%	1 day	Mon 22/10/12	Mon 22/10/12													
59	ArcFM Symbology (Electric)	100%	1 day	Mon 22/10/12	Mon 22/10/12													
60	Project Planning	100%	31 days	Tue 19/06/12	Wed 01/08/12													
61	Develop Project Plan	100%	6 days	Tue 19/06/12	Tue 26/06/12													
62	PUC Plan Review Meeting	100%	1 day	Wed 27/06/12	Wed 27/06/12													
63	Develop Project Plan	100%	13 days	Thu 28/06/12	Tue 17/07/12													
64	FINAL - PUC Submitted Plan Meeting	100%	1 day	Wed 18/07/12	Wed 18/07/12													
65	Develop Project Plan	100%	9 days	Thu 19/07/12	Tue 31/07/12													
66	Submit Transition Replan for PUC	100%	1 day	Wed 01/08/12	Wed 01/08/12													
67	Approvals	100%	185 days	Mon 17/12/12	Tue 17/09/13													
68	Liberty Utilities PO Approval for Software & Services (SCADA)	100%	10 days	Mon 17/12/12	Wed 02/01/13													
69	Liberty Utilities PO Approval for Software & Services (ArcFM)	100%	10 days	Mon 17/12/12	Wed 02/01/13													
70	Liberty Utilities PO Approval for Software & Services (Designer)	100%	10 days	Wed 04/09/13	Tue 17/09/13													
71	Liberty Utilities PO Approval for Software & Services (Responder)	100%	10 days	Wed 04/09/13	Tue 17/09/13													
72	Transfer Plans & Coordination	100%	73 days	Tue 02/10/12	Tue 22/01/13													
73	Data Transfer & Integration Dependency Workshops	100%	3 days	Tue 02/10/12	Thu 04/10/12													

5005 Q4 2013: Engineering Ops Project Plan																			
ID	Task Name	% Complete	Duration	Start	Finish	2012				2013				2014					
						Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1
74	Document Transfer Strategies	100%	70 days	Fri 05/10/12	Tue 22/01/13						100%								
75	GIS (ArcFM)	22%	224 days	Mon 03/06/13	Fri 25/04/14														
76	GIS Implementation Kickoff (ArcFM)	100%	1 day	Mon 03/06/13	Mon 03/06/13														
77	Design (GIS)	35%	158 days	Wed 05/06/13	Mon 27/01/14														
78	Design Sessions (GIS)	81%	106 days	Wed 05/06/13	Wed 06/11/13														
79	Data Migration/Conversion Specifications (GIS)	100%	5 days	Mon 17/06/13	Fri 21/06/13														
80	Electric Migration Specification Workshop (GIS)	100%	2 days	Mon 17/06/13	Tue 18/06/13														
81	Gas Data Model Review Workshop (GIS)	100%	2 days	Wed 19/06/13	Thu 20/06/13														
82	SPIPE Migration Specification Workshop (GIS)	100%	1 day	Fri 21/06/13	Fri 21/06/13														
83	Design Integrations & Interfaces (GIS)	57%	106 days	Wed 05/06/13	Wed 06/11/13														
84	Asset Inventory Synchronization Workshop (GIS)	0%	3 days	Mon 04/11/13	Wed 06/11/13														
85	Cogsdale Data Integration Workshop (GIS)	100%	2 days	Wed 05/06/13	Thu 06/06/13														
86	Integration Review w/ M2C and ERP (GIS)	100%	2 days	Fri 07/06/13	Mon 10/06/13														
87	Develop Testing Strategy (GIS)	100%	2 days	Mon 24/06/13	Tue 25/06/13														
88	Develop Implementation Plan (GIS)	100%	2 days	Wed 26/06/13	Thu 27/06/13														
89	System Design Documentation (GIS)	41%	126 days	Fri 07/06/13	Wed 11/12/13														
90	Asset Inventory Synchronization Specification (GIS)	0%	22 days	Thu 07/11/13	Wed 11/12/13														
91	Asset Inventory Synch Spec (GIS)	0%	10 days	Thu 07/11/13	Thu 21/11/13														
92	Delivery of Asset Inventory Synch Spec (GIS)	0%	1 day	Fri 22/11/13	Fri 22/11/13														
93	Review of Asset Inventory Synch Spec (GIS)	0%	10 days	Mon 25/11/13	Tue 10/12/13														
94	Inclusion of Comments Asset Inventory Synch Spec (GIS)	0%	7 days	Mon 02/12/13	Tue 10/12/13														
95	Acceptance of Asset Inventory Synch Spec (GIS)	0%	1 day	Wed 11/12/13	Wed 11/12/13														
96	Cogsdale Data Integration Specification (GIS)	51%	114 days	Fri 07/06/13	Thu 21/11/13														
97	Cogsdale Data Integration Spec (GIS)	60%	102 days	Fri 07/06/13	Mon 04/11/13														
98	Delivery of Cogsdale Data Integration Spec (GIS)	0%	1 day	Tue 05/11/13	Tue 05/11/13														
99	Review of Cogsdale Data Integration Spec (GIS)	0%	10 days	Wed 06/11/13	Wed 20/11/13														
100	Inclusion of Comments Cogsdale Data Integration Spec (GIS)	0%	7 days	Tue 12/11/13	Wed 20/11/13														
101	Acceptance of Cogsdale Data Integration Spec (GIS)	0%	1 day	Thu 21/11/13	Thu 21/11/13														
102	System Design Documentation (Gas GIS)	27%	146 days	Fri 21/06/13	Mon 27/01/14														
103	Gas Data Migration Specification (Gas GIS)	33%	104 days	Fri 21/06/13	Thu 21/11/13														
104	Document Gas Data Migration Spec (Gas GIS)	40%	92 days	Fri 21/06/13	Mon 04/11/13														
105	Delivery of Gas Data Migration Spec (Gas GIS)	0%	1 day	Tue 05/11/13	Tue 05/11/13														
106	Review of Gas Data Migration Spec (Gas GIS)	0%	10 days	Wed 06/11/13	Wed 20/11/13														
107	Inclusion of Comments Gas Data Migration Spec (Gas GIS)	0%	7 days	Tue 12/11/13	Wed 20/11/13														
108	Acceptance of Gas Data Migration Spec (Gas GIS)	0%	1 day	Thu 21/11/13	Thu 21/11/13														
109	SPIPE Migration Specification (Gas GIS)	33%	103 days	Mon 24/06/13	Thu 21/11/13														
110	Document SPIPE Migration Spec (Gas GIS)	40%	91 days	Mon 24/06/13	Mon 04/11/13														
111	Delivery of SPIPE Migration Spec (Gas GIS)	0%	1 day	Tue 05/11/13	Tue 05/11/13														
112	Review of SPIPE Migration Spec (Gas GIS)	0%	10 days	Wed 06/11/13	Wed 20/11/13														
113	Inclusion of Comments SPIPE Migration Spec (Gas GIS)	0%	7 days	Tue 12/11/13	Wed 20/11/13														
114	Acceptance of SPIPE Migration Spec (Gas GIS)	0%	1 day	Thu 21/11/13	Thu 21/11/13														
115	Testing Plan (Gas GIS)	0%	21 days	Fri 22/11/13	Tue 24/12/13														
116	Document Testing Plan (Gas GIS)	0%	10 days	Fri 22/11/13	Mon 09/12/13														
117	Review of Testing Plan (Gas GIS)	0%	10 days	Tue 10/12/13	Mon 23/12/13														
118	Acceptance of Testing Plan (Gas GIS)	0%	1 day	Tue 24/12/13	Tue 24/12/13														
119	Implementation Plan (Gas GIS)	0%	21 days	Fri 27/12/13	Mon 27/01/14														
120	Document Implementation Plan (Gas GIS)	0%	10 days	Fri 27/12/13	Thu 09/01/14														
121	Review of Implementation Plan (Gas GIS)	0%	10 days	Fri 10/01/14	Fri 24/01/14														
122	Acceptance of Implementation Plan (Gas GIS)	0%	1 day	Mon 27/01/14	Mon 27/01/14														
123	Evaluate Project Plan (Gas GIS)	0%	3 days	Fri 22/11/13	Tue 26/11/13														
124	Replan If Necessary (Gas GIS)	0%	3 days	Wed 27/11/13	Tue 03/12/13														
125	System Design Documentation (Electric GIS)	41%	98 days	Tue 03/09/13	Mon 27/01/14														
126	SW to ESRI Data Migration Specification (Electric GIS)	100%	20 days	Tue 03/09/13	Mon 30/09/13														
127	Document SW to ESRI Data Migration Spec (Electric GIS)	100%	10 days	Tue 03/09/13	Mon 16/09/13														
128	Delivery of SW to ESRI Data Migration Spec (Electric GIS)	100%	1 day	Tue 17/09/13	Tue 17/09/13														
129	Review of SW to ESRI Data Migration Spec (Electric GIS)	100%	8 days	Wed 18/09/13	Fri 27/09/13														
130	Inclusion of Comments SW to ESRI Data Migration Spec (Electric GIS)	100%	5 days	Mon 23/09/13	Fri 27/09/13														
131	Acceptance of SW to ESRI Data Migration Spec (Electric GIS)	100%	1 day	Mon 30/09/13	Mon 30/09/13														
132	Electric Data Migration Specification (Electric GIS)	52%	38 days	Mon 23/09/13	Fri 15/11/13														
133	Document Electric Data Migration Spec (Electric GIS)	90%	26 days	Mon 23/09/13	Tue 29/10/13														
134	Delivery of Electric Data Migration Spec (Electric GIS)	0%	1 day	Wed 30/10/13	Wed 30/10/13														
135	Review of Electric Data Migration Spec (Electric GIS)	0%	10 days	Thu 31/10/13	Thu 14/11/13														
136	Inclusion of Comments Electric Data Migration Spec (Electric GIS)	0%	7 days	Tue 05/11/13	Thu 14/11/13														
137	Acceptance of Electric Data Migration Spec (Electric GIS)	0%	1 day	Fri 15/11/13	Fri 15/11/13														
138	Testing Plan (Electric GIS)	0%	21 days	Fri 22/11/13	Tue 24/12/13														
139	Document Testing Plan (Electric GIS)	0%	10 days	Fri 22/11/13	Mon 09/12/13														
140	Review of Testing Plan (Electric GIS)	0%	10 days	Tue 10/12/13	Mon 23/12/13														
141	Acceptance of Testing Plan (Electric GIS)	0%	1 day	Tue 24/12/13	Tue 24/12/13														
142	Implementation Plan (Electric GIS)	0%	21 days	Fri 27/12/13	Mon 27/01/14														
143	Document Implementation Plan (Electric GIS)	0%	10 days	Fri 27/12/13	Thu 09/01/14														
144	Review of Implementation Plan (Electric GIS)	0%	10 days	Fri 10/01/14	Fri 24/01/14														
145	Acceptance of Implementation Plan (Electric GIS)	0%	1 day	Mon 27/01/14	Mon 27/01/14														

IDTask Name		% Complete	Duration	Start	Finish	2012					2013				2014						
						Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1		
146	Evaluate Project Plan (Electric GIS)	0%	3 days	Fri 22/11/13	Tue 26/11/13																
147	Replan If Necessary (Electric GIS)	0%	3 days	Wed 27/11/13	Tue 03/12/13																
148	Configure Environments (GIS)	15%	89 days	Mon 26/08/13	Mon 06/01/14																
149	Databases (GIS)	0%	11 days	Fri 22/11/13	Tue 10/12/13																
150	Install & Configure Databases (GIS)	0%	3 days	Fri 22/11/13	Tue 26/11/13																
151	Install and Configure ArcSDE (GIS)	0%	3 days	Wed 27/11/13	Tue 03/12/13																
152	Load Test Data (GIS)	0%	2 days	Wed 04/12/13	Thu 05/12/13																
153	Tune Database (GIS)	0%	2 days	Fri 06/12/13	Mon 09/12/13																
154	Test Connectivity and Availability (GIS Databases)	0%	1 day	Tue 10/12/13	Tue 10/12/13																
155	Software (GIS)	26%	86 days	Mon 26/08/13	Wed 01/01/14																
156	Install and Configure ArcGIS Server (GIS)	0%	4 days	Wed 11/12/13	Mon 16/12/13																
157	Install and Configure ArcFM Server (GIS)	0%	4 days	Tue 17/12/13	Fri 20/12/13																
158	Install and Configure ArcFM Viewer on Mobile Devices (GIS)	100%	5 days	Mon 26/08/13	Fri 30/08/13																
159	Configure ArcFM	0%	5 days	Mon 23/12/13	Tue 31/12/13																
160	Test Connectivity and Availability (GIS Software)	0%	1 day	Wed 01/01/14	Wed 01/01/14																
161	Test the Full System Configuration (GIS)	0%	3 days	Thu 02/01/14	Mon 06/01/14																
162	Development (GIS)	0%	55 days	Fri 22/11/13	Thu 13/02/14																
163	Development GIS	0%	55 days	Fri 22/11/13	Thu 13/02/14																
164	Asset Inventory Synchronization	0%	43 days	Thu 12/12/13	Thu 13/02/14																
165	Develop Asset Inventory Synchronization (GIS)	0%	25 days	Thu 12/12/13	Fri 17/01/14																
166	LU Review Asset Inventory Synchronization Prototype (GIS)	0%	1 day	Tue 21/01/14	Tue 21/01/14																
167	Finalize Asset Inventory Synchronization (GIS)	0%	15 days	Wed 22/01/14	Tue 11/02/14																
168	LU Review Asset Inventory Synchronization Release (GIS)	0%	1 day	Wed 12/02/14	Wed 12/02/14																
169	Sign Off & Acceptance Asset Inventory Synchronization (GIS)	0%	1 day	Thu 13/02/14	Thu 13/02/14																
170	Cogsdale (CIS) Integration w/ ArcFM (GIS)	0%	33 days	Fri 22/11/13	Mon 13/01/14																
171	Develop Cogsdale (CIS) Integration (GIS)	0%	15 days	Fri 22/11/13	Mon 16/12/13																
172	LU Review Cogsdale (CIS) Integration Prototype (GIS)	0%	1 day	Tue 17/12/13	Tue 17/12/13																
173	Finalize Cogsdale (CIS) Integration (GIS)	0%	15 days	Wed 18/12/13	Thu 09/01/14																
174	LU Review Cogsdale (CIS) Integration Release (GIS)	0%	1 day	Fri 10/01/14	Fri 10/01/14																
175	Sign Off & Acceptance Cogsdale (CIS) Integration (GIS)	0%	1 day	Mon 13/01/14	Mon 13/01/14																
176	Development Electric GIS (SmallWorld to ArcFM)	0%	10 days	Fri 22/11/13	Mon 09/12/13																
177	Reproduce Feeder Index Map Book Generator (Electric GIS)	0%	10 days	Fri 22/11/13	Mon 09/12/13																
178	Data Conversion/Migration (GIS)	0%	74 days	Mon 18/11/13	Thu 06/03/14																
179	Gas (ArcFM to ArcFM)	0%	31 days	Fri 22/11/13	Thu 09/01/14																
180	National Grid Data Extract (Gas GIS)	0%	5 days	Fri 22/11/13	Mon 02/12/13																
181	Acquire National Grid Data (Gas GIS)	0%	1 day	Tue 03/12/13	Tue 03/12/13																
182	Develop Data Migration (Gas GIS)	0%	15 days	Wed 04/12/13	Tue 24/12/13																
183	Execute Data Migration (Gas GIS)	0%	2 days	Fri 27/12/13	Mon 30/12/13																
184	Data Load to Test Environment (Gas GIS)	0%	1 day	Tue 07/01/14	Tue 07/01/14																
185	Configure and Run Asset ID Generator (Gas GIS)	0%	2 days	Wed 08/01/14	Thu 09/01/14																
186	Electric (Smallworld to ArcFM)	0%	65 days	Mon 18/11/13	Fri 21/02/14																
187	National Grid Data Extract (Electric GIS)	0%	5 days	Mon 18/11/13	Fri 22/11/13																
188	Acquire National Grid Data (Electric GIS)	0%	1 day	Mon 25/11/13	Mon 25/11/13																
189	Develop Data Conversion (Electric GIS)	0%	10 days	Tue 26/11/13	Wed 11/12/13																
190	LU Review of Pilot Conversion (Electric GIS)	0%	10 days	Thu 12/12/13	Fri 27/12/13																
191	Adjust Conversion Spec & Routines (Electric GIS)	0%	15 days	Mon 30/12/13	Fri 17/01/14																
192	Rerun Pilot Conversion (Electric GIS)	0%	10 days	Tue 21/01/14	Mon 03/02/14																
193	LU Final Review of Pilot Conversion (Electric GIS)	0%	10 days	Tue 04/02/14	Mon 17/02/14																
194	LU Data Conversion Sign Off & Acceptance (Electric GIS)	0%	1 day	Tue 18/02/14	Tue 18/02/14																
195	Data Load to Test Environment (Electric GIS)	0%	1 day	Wed 19/02/14	Wed 19/02/14																
196	Configure and Run Asset ID Generator (Electric GIS)	0%	2 days	Thu 20/02/14	Fri 21/02/14																
197	SPIPE Conversion (Gas GIS)	0%	70 days	Fri 22/11/13	Thu 06/03/14																
198	National Grid Data Extract (Gas GIS)	0%	5 days	Fri 22/11/13	Mon 02/12/13																
199	Acquire National Grid Data (Gas GIS)	0%	1 day	Tue 03/12/13	Tue 03/12/13																
200	Develop SPIPE Conversion (Gas GIS)	0%	10 days	Fri 27/12/13	Thu 09/01/14																
201	LU Review of Pilot SPIPE Conversion (Gas GIS)	0%	8 days	Fri 10/01/14	Wed 22/01/14																
202	Adjust Pilot SPIPE Conversion Spec & Routines (Gas GIS)	0%	10 days	Thu 23/01/14	Wed 05/02/14																
203	Rerun Pilot SPIPE Conversion (Gas GIS)	0%	2 days	Thu 06/02/14	Fri 07/02/14																
204	LU Final Review of Pilot SPIPE Conversion (Gas GIS)	0%	7 days	Mon 10/02/14	Tue 18/02/14																
205	LU SPIPE Conversion Sign Off & Acceptance (Gas GIS)	0%	1 day	Wed 19/02/14	Wed 19/02/14																
206	Data Load to Test Environment (Gas GIS)	0%	1 day	Thu 20/02/14	Thu 20/02/14																
207	Rebuild SPIPE Crystal Reports	0%	10 days	Fri 21/02/14	Thu 06/03/14																
208	Testing (GIS)	0%	46 days	Fri 21/02/14	Fri 25/04/14																

5005 Q4 2013: Engineering Ops Project Plan																			
ID	Task Name	% Complete	Duration	Start	Finish	2012					2013				2014				
						Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1
219	System Sign-Off & Acceptance (Gas GIS)	0%	1 day	Thu 10/04/14	Thu 10/04/14														
220	Electric GIS (ArcFM)	0%	45 days	Mon 24/02/14	Fri 25/04/14														
221	User Training (Electric GIS)	0%	5 days	Mon 24/02/14	Fri 28/02/14														
222	Install & Configure Build 1 (Electric GIS)	0%	1 day	Mon 03/03/14	Mon 03/03/14														
223	Functional Testing (Electric GIS)	0%	10 days	Tue 04/03/14	Mon 17/03/14														
224	Install & Configure Build 2 (Electric GIS)	0%	1 day	Tue 18/03/14	Tue 18/03/14														
225	Integration Testing (Electric GIS)	0%	10 days	Wed 19/03/14	Tue 01/04/14														
226	Install & Configure Build 3 (Electric GIS)	0%	1 day	Wed 02/04/14	Wed 02/04/14														
227	Performance Testing (Electric GIS)	0%	10 days	Thu 03/04/14	Wed 16/04/14														
228	Install & Configure Build 4 (Electric GIS)	0%	1 day	Thu 17/04/14	Thu 17/04/14														
229	User Acceptance Testing (Electric GIS)	0%	5 days	Fri 18/04/14	Thu 24/04/14														
230	System Sign-Off & Acceptance (Electric GIS)	0%	1 day	Fri 25/04/14	Fri 25/04/14														
231	Implementation (GIS)	0%	17 days	Wed 26/03/14	Thu 17/04/14														
232	Extract Final Cut of NGrid Data (Gas GIS)	0%	5 days	Wed 26/03/14	Tue 01/04/14														
233	Load Final Cut of NGrid Data (Gas GIS)	0%	2 days	Wed 02/04/14	Thu 03/04/14														
234	Execute Cutover Plan (Gas GIS)	0%	2 days	Fri 11/04/14	Mon 14/04/14														
235	Review Cutover Checklist (Gas GIS)	0%	2 days	Tue 15/04/14	Wed 16/04/14														
236	Go Live (Gas GIS)	0%	1 day	Thu 17/04/14	Thu 17/04/14														
237	SCADA (OASys)	52%	411 days	Thu 11/10/12	Mon 09/06/14														
238	SCADA Implementation Kickoff (OASys)	100%	1 day	Mon 15/04/13	Mon 15/04/13														
239	Design (SCADA)	70%	305 days	Thu 11/10/12	Thu 09/01/14														
240	Design Sessions (SCADA)	100%	158 days	Thu 11/10/12	Tue 04/06/13														
241	Gather Functional Requirements (SCADA)	100%	3 days	Tue 16/04/13	Thu 18/04/13														
242	Network & System Architecture Planning (SCADA)	100%	2 days	Thu 11/10/12	Fri 12/10/12														
243	Design Architecture (SCADA)	100%	5 days	Fri 19/04/13	Thu 25/04/13														
244	Develop Data & Screen Conversion Plan (SCADA)	100%	2 days	Mon 03/06/13	Tue 04/06/13														
245	Develop Testing Strategy (SCADA)	100%	2 days	Tue 30/04/13	Wed 01/05/13														
246	Develop Implementation Plan (SCADA)	100%	2 days	Mon 03/06/13	Tue 04/06/13														
247	System Design Documentation (SCADA)	100%	58 days	Mon 15/10/12	Thu 10/01/13														
248	Network Architecture Specification (SCADA)	100%	58 days	Mon 15/10/12	Thu 10/01/13														
249	Document Network Architecture Spec (SCADA)	100%	42 days	Mon 15/10/12	Fri 14/12/12														
250	Review of Network Architecture Spec (SCADA)	100%	15 days	Mon 17/12/12	Wed 09/01/13														
251	Acceptance of Network Architecture Spec (SCADA)	100%	1 day	Thu 10/01/13	Thu 10/01/13														
252	System Architecture Specification (SCADA)	100%	58 days	Mon 15/10/12	Thu 10/01/13														
253	Document System Architecture Spec (SCADA)	100%	42 days	Mon 15/10/12	Fri 14/12/12														
254	Delivery of System Architecture Spec (SCADA)	100%	1 day	Mon 17/12/12	Mon 17/12/12														
255	Review of System Architecture Spec (SCADA)	100%	14 days	Tue 18/12/12	Wed 09/01/13														
256	Inclusion of Comments System Architecture Spec (SCADA)	100%	4 days	Fri 04/01/13	Wed 09/01/13														
257	Acceptance of System Architecture Spec (SCADA)	100%	1 day	Thu 10/01/13	Thu 10/01/13														
258	System Design Documentation (Gas SCADA)	65%	178 days	Fri 19/04/13	Thu 09/01/14														
259	Functional Requirements (Gas SCADA)	100%	35 days	Fri 19/04/13	Mon 10/06/13														
260	Document Functional Requirements (Gas SCADA)	100%	24 days	Fri 19/04/13	Thu 23/05/13														
261	Review of Functional Requirements (Gas SCADA)	100%	10 days	Fri 24/05/13	Fri 07/06/13														
262	Acceptance of Functional Requirements (Gas SCADA)	100%	1 day	Mon 10/06/13	Mon 10/06/13														
263	Testing Plan (Gas SCADA)	64%	131 days	Wed 29/05/13	Mon 09/12/13														
264	Document Testing Plan (Gas SCADA)	70%	120 days	Wed 29/05/13	Wed 20/11/13														
265	Review of Testing Plan (Gas SCADA)	0%	10 days	Thu 21/11/13	Fri 06/12/13														
266	Acceptance of Testing Plan (Gas SCADA)	0%	1 day	Mon 09/12/13	Mon 09/12/13														
267	Implementation Plan (Gas SCADA)	0%	21 days	Tue 10/12/13	Thu 09/01/14														
268	Document Implementation Plan (Gas SCADA)	0%	10 days	Tue 10/12/13	Mon 23/12/13														
269	Review of Implementation Plan (Gas SCADA)	0%	10 days	Tue 24/12/13	Wed 08/01/14														
270	Acceptance of Implementation Plan (Gas SCADA)	0%	1 day	Thu 09/01/14	Thu 09/01/14														
271	Evaluate Project Plan (Gas SCADA)	100%	3 days	Fri 24/05/13	Wed 29/05/13														
272	Replan If Necessary (Gas SCADA)	100%	3 days	Thu 30/05/13	Mon 03/06/13														
273	System Design Documentation (Electric SCADA)	41%	66 days	Wed 25/09/13	Thu 02/01/14														
274	Functional Requirements (Electric SCADA)	100%	21 days	Wed 25/09/13	Thu 24/10/13														
275	Document Functional Requirements (Electric SCADA)	100%	10 days	Wed 25/09/13	Tue 08/10/13														
276	Review of Functional Requirements (Electric SCADA)	100%	10 days	Wed 09/10/13	Wed 23/10/13														
277	Acceptance of Functional Requirements (Electric SCADA)	100%	1 day	Thu 24/10/13	Thu 24/10/13														
278	Data & Screen Conversion Specification (Electric SCADA)	62%	24 days	Wed 25/09/13	Tue 29/10/13														
279	Document Data & Screen Conversion Spec (Electric SCADA)	100%	10 days	Wed 25/09/13	Tue 08/10/13														
280	Delivery of Data & Screen Conversion Spec (Electric SCADA)	100%	1 day	Wed 09/10/13	Wed 09/10/13														
281	Review of Data & Screen Conversion Spec (Electric SCADA)	50%	12 days	Thu 10/10/13	Mon 28/10/13														
282	Inclusion of Comments Data & Screen Conversion Spec (Electric SCADA)	40%	9 days	Wed 16/10/13	Mon 28/10/13														
283	Acceptance of Data & Screen Conversion Spec (Electric SCADA)	0%	1 day	Tue 29/10/13	Tue 29/10/13														
284	Testing Plan (Electric SCADA)	0%	21 days	Wed 30/10/13	Mon 02/12/13														
285	Document Testing Plan (Electric SCADA)	0%	10 days	Wed 30/10/13	Wed 13/11/13														
286	Review of Testing Plan (Electric SCADA)	0%	10 days	Thu 14/11/13	Wed 27/11/13														
287	Acceptance of Testing Plan (Electric SCADA)	0%	1 day	Mon 02/12/13	Mon 02/12/13														
288	Implementation Plan (Electric SCADA)	0%	21 days	Tue 03/12/13	Thu 02/01/14														
289	Document Implementation Plan (Electric SCADA)	0%	10 days	Tue 03/12/13	Mon 16/12/13														
290	Review of Implementation Plan (Electric SCADA)	0%	10 days	Tue 17/12/13	Wed 01/01/14														

5005 Q4 2013: Engineering Ops Project Plan																				
ID	Task Name	% Complete	Duration	Start	Finish	Qtr 4	2012					2013				2014				
							Qtr 1	Qtr 2	Qtr 3	Qtr 4		Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1
291	Acceptance of Implementation Plan (Electric SCADA)	0%	1 day	Thu 02/01/14	Thu 02/01/14											◆ 02/01				
292	Evaluate Project Plan (Electric SCADA)	0%	3 days	Wed 30/10/13	Fri 01/11/13										▮ 0%					
293	Replan If Necessary (Electric SCADA)	0%	3 days	Mon 04/11/13	Wed 06/11/13										▮ 0%					
294	Configure Environments & Infrastructure (SCADA)	70%	266 days	Mon 04/02/13	Mon 03/03/14															
295	Infrastructure (SCADA)	70%	266 days	Mon 04/02/13	Mon 03/03/14															
296	Set Up Hardware in Primary Data Center (SCADA)	100%	5 days	Mon 04/02/13	Fri 08/02/13										▮ 100%					
297	Test Infrastructure in Primary Data Center	100%	2 days	Mon 06/05/13	Tue 07/05/13										▮ 100%					
298	Set Up Hardware in Back Up Data Center (SCADA)	100%	39 days	Mon 12/08/13	Fri 04/10/13															
299	Build Primary Control Room (SCADA)	100%	5 days	Mon 12/08/13	Fri 16/08/13															
300	Build Stand By Control Room (SCADA)	100%	5 days	Tue 09/07/13	Mon 15/07/13															
301	Establish Communications Infrastructure	85%	60 days	Mon 12/08/13	Tue 05/11/13															
302	Division of NGrid T&D RTUs	59%	205 days	Wed 01/05/13	Fri 28/02/14															
303	Division of T&D RTUS Complete	0%	1 day	Mon 03/03/14	Mon 03/03/14															
304	Test All SCADA Infrastructure (SCADA)	0%	3 days	Wed 06/11/13	Fri 08/11/13															
305	Databases (SCADA)	17%	6 days	Mon 28/10/13	Mon 04/11/13															
306	Install & Configure Databases (SCADA)	20%	5 days	Mon 28/10/13	Fri 01/11/13															
307	Test Connectivity and Availability (SCADA Databases)	0%	1 day	Mon 04/11/13	Mon 04/11/13															
308	Software (SCADA)	100%	11 days	Wed 22/05/13	Thu 06/06/13															
309	Install and Configure OASyS (SCADA)	100%	5 days	Wed 22/05/13	Wed 29/05/13															
310	Install & Configure Workstations (SCADA)	100%	5 days	Thu 30/05/13	Wed 05/06/13															
311	Test Connectivity and Availability (SCADA Software)	100%	1 day	Thu 06/06/13	Thu 06/06/13															
312	Test the Development System Configuration (SCADA)	100%	3 days	Fri 07/06/13	Tue 11/06/13															
313	Test the Full System Configuration (SCADA)	0%	3 days	Tue 12/11/13	Thu 14/11/13															
314	Development (SCADA)	16%	146 days	Wed 12/06/13	Wed 15/01/14															
315	Development Gas SCADA (OASyS to OASyS)	22%	146 days	Wed 12/06/13	Wed 15/01/14															
316	Selected Protocol Integration (Gas SCADA)	100%	2 days	Wed 12/06/13	Thu 13/06/13															
317	Gas Protocol Implementation (Gas SCADA)	100%	2 days	Fri 14/06/13	Mon 17/06/13															
318	Gas Day Operations (GDO) (Gas SCADA)	100%	2 days	Tue 18/06/13	Wed 19/06/13															
319	Migrate Displays (Gas SCADA)	100%	5 days	Thu 20/06/13	Wed 26/06/13															
320	Migrate Calculations (Gas SCADA)	100%	4 days	Thu 25/07/13	Tue 30/07/13															
321	Gas Suite Applications	0%	53 days	Mon 28/10/13	Wed 15/01/14															
322	Development Electric SCADA (ABB to OASyS)	0%	22 days	Wed 30/10/13	Tue 03/12/13															
323	Selected Protocol Integration (Electric SCADA)	0%	2 days	Wed 30/10/13	Thu 31/10/13															
324	Electric Protocol Implementation (Electric SCADA)	0%	3 days	Fri 01/11/13	Tue 05/11/13															
325	Migrate Displays (Electric SCADA)	0%	17 days	Wed 06/11/13	Tue 03/12/13															
326	Migrate Calculations (Electric SCADA)	0%	4 days	Thu 21/11/13	Tue 26/11/13															
327	Data Conversion/Migration (SCADA)	66%	124 days	Wed 22/05/13	Wed 20/11/13															
328	Gas (OASyS to OASyS)	100%	43 days	Wed 22/05/13	Wed 24/07/13															
329	National Grid Data Extract (Gas SCADA)	100%	10 days	Wed 22/05/13	Wed 05/06/13															
330	Acquire National Grid Data (Gas SCADA)	100%	1 day	Thu 06/06/13	Thu 06/06/13															
331	Develop Data Migration (Gas SCADA)	100%	18 days	Thu 27/06/13	Wed 24/07/13															
332	Real Time Data (Gas SCADA)	100%	12 days	Thu 27/06/13	Tue 16/07/13															
333	Historical Data (Gas SCADA)	100%	6 days	Wed 17/07/13	Wed 24/07/13															
334	Electric (ABB to OASyS)	0%	15 days	Wed 30/10/13	Wed 20/11/13															
335	National Grid Data Extract (Electric SCADA)	0%	5 days	Wed 30/10/13	Tue 05/11/13															
336	Acquire National Grid Data (Electric SCADA)	0%	1 day	Wed 06/11/13	Wed 06/11/13															
337	Develop Data Conversion (Electric SCADA)	0%	9 days	Thu 07/11/13	Wed 20/11/13															
338	Real Time Data (Electric SCADA)	0%	6 days	Thu 07/11/13	Fri 15/11/13															
339	Historical Data (Electric SCADA)	0%	3 days	Mon 18/11/13	Wed 20/11/13															
340	Testing (SCADA)	0%	126 days	Wed 04/12/13	Mon 02/06/14															
341	Gas SCADA (OASyS)	0%	97 days	Thu 16/01/14	Mon 02/06/14															
342	Factory Acceptance Testing (Gas SCADA)	0%	19 days	Thu 16/01/14	Wed 12/02/14															
343	Set Up & Configure Data Centre (Gas SCADA)	0%	25 days	Thu 13/02/14	Wed 19/03/14															
344	Communication Protocol Testing (Gas SCADA)	0%	2 days	Thu 20/03/14	Fri 21/03/14															
345	User Training (Gas SCADA)	0%	5 days	Mon 24/03/14	Fri 28/03/14															
346	Site Acceptance Testing (Gas SCADA)	0%	10 days	Mon 31/03/14	Fri 11/04/14															
347	Connect & Reconfigure Field Equipment (Gas SCADA)	0%	20 days	Mon 14/04/14	Fri 09/05/14															
348	User Acceptance/Parallel Testing (Gas SCADA)	0%	15 days	Mon 12/05/14	Fri 30/05/14															
349	System Sign-Off & Acceptance (Gas SCADA)	0%	1 day	Mon 02/06/14	Mon 02/06/14															
350	Electric SCADA (OASyS)	0%	96 days	Wed 04/12/13	Mon 21/04/14															
351	Factory Acceptance Testing (Electric SCADA)	0%	15 days	Wed 04/12/13	Tue 24/12/13															
352	Set Up & Configure Data Centre (Electric SCADA)	0%	17 days	Fri 27/12/13	Tue 21/01/14															
353	Communications Protocol Testing (Electric SCADA)	0%	5 days	Wed 22/01/14	Tue 28/01/14															
354	User Training (Electric SCADA)	0%	5 days	Wed 29/01/14	Tue 04/02/14															
355	Site Acceptance Testing (Electric SCADA)	0%	10 days	Wed 05/02/14	Tue 18/02/14															
356	Connect & Reconfigure Field Equipment (Electric SCADA)	0%	20 days	Mon 03/03/14	Fri 28/03/14															
357	User Acceptance/Parallel Testing (Electric SCADA)	0%	15 days	Mon 31/03/14	Fri 18/04/14															
358	System Sign-Off & Acceptance (Electric SCADA)	0%	1 day	Mon 21/04/14	Mon 21/04/14															
359	Implementation (SCADA)	0%	35 days	Tue 22/04/14	Mon 09/06/14															
360	Extract Final Cut of NGrid Data (Gas SCADA)	0%	5 days	Mon 12/05/14	Fri 16/05/14															
361	Load Final Cut of NGrid Data (Gas SCADA)	0%	2 days	Mon 19/05/14	Tue 20/05/14															
362	Execute Cutover Plan (Gas SCADA)	0%	2 days	Tue 03/06/14	Wed 04/06/14															
363	Review Cutover Checklist (Gas SCADA)	0%	2 days	Thu 05/06/14	Fri 06/06/14															

5005 Q4 2013: Engineering Ops Project Plan																			
ID	Task Name	% Complete	Duration	Start	Finish	Qtr 4	2012				2013				2014				
							Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1
364	Go Live (Gas SCADA)	0%	1 day	Mon 09/06/14	Mon 09/06/14														
365	Extract Final Cut of NGrid Data (Electric SCADA)	0%	5 days	Tue 22/04/14	Mon 28/04/14														
366	Load Final Cut of NGrid Data (Electric SCADA)	0%	2 days	Tue 29/04/14	Wed 30/04/14														
367	Execute Cutover Plan (Electric SCADA)	0%	2 days	Thu 01/05/14	Fri 02/05/14														
368	Review Cutover Checklist (Electric SCADA)	0%	2 days	Mon 05/05/14	Tue 06/05/14														
369	Go Live (Electric SCADA)	0%	1 day	Wed 07/05/14	Wed 07/05/14														
370	OMS (Responder)	1%	157 days	Mon 21/10/13	Wed 04/06/14														
371	OMS Implementation Kickoff (Responder)	100%	1 day	Mon 21/10/13	Mon 21/10/13														
372	Project Core Team Training (OMS)	100%	2 days	Mon 21/10/13	Tue 22/10/13														
373	Design (OMS)	0%	73 days	Tue 29/10/13	Fri 14/02/14														
374	Design Sessions (OMS)	0%	8 days	Tue 29/10/13	Thu 07/11/13														
375	Gather Custom Reporting Requirements (OMS)	0%	2 days	Thu 31/10/13	Fri 01/11/13														
376	Data Migration Specification Workshop (OMS)	0%	2 days	Mon 04/11/13	Tue 05/11/13														
377	Design Responder Integrations (OMS)	0%	2 days	Tue 29/10/13	Wed 30/10/13														
378	Integration Review w/ M2C, SCADA, H&S (OMS)	0%	2 days	Thu 31/10/13	Fri 01/11/13														
379	Develop Testing Strategy (OMS)	0%	2 days	Mon 04/11/13	Tue 05/11/13														
380	Develop Implementation Plan (OMS)	0%	2 days	Wed 06/11/13	Thu 07/11/13														
381	Functional Requirements (OMS)	0%	21 days	Mon 04/11/13	Thu 05/12/13														
382	Document Functional Requirements (OMS)	0%	10 days	Mon 04/11/13	Mon 18/11/13														
383	Review of Functional Requirements (OMS)	0%	10 days	Tue 19/11/13	Wed 04/12/13														
384	Acceptance of Functional Requirements (OMS)	0%	1 day	Thu 05/12/13	Thu 05/12/13														
385	Integration Requirements Definition (OMS)	0%	20 days	Thu 31/10/13	Mon 02/12/13														
386	Document Integration Requirements (OMS)	0%	8 days	Thu 31/10/13	Tue 12/11/13														
387	Delivery of Integration Requirements Document (OMS)	0%	1 day	Wed 13/11/13	Wed 13/11/13														
388	Review of Integration Requirements Document (OMS)	0%	10 days	Thu 14/11/13	Wed 27/11/13														
389	Inclusion of Comments Integration Requirements Document (OMS)	0%	7 days	Tue 19/11/13	Wed 27/11/13														
390	Acceptance of Integration Requirements Document (OMS)	0%	1 day	Mon 02/12/13	Mon 02/12/13														
391	Custom Reporting Specification (OMS)	0%	22 days	Mon 04/11/13	Fri 06/12/13														
392	Custom Reporting Spec (OMS)	0%	10 days	Mon 04/11/13	Mon 18/11/13														
393	Delivery of Custom Reporting Spec (OMS)	0%	1 day	Tue 19/11/13	Tue 19/11/13														
394	Review of Custom Reporting Spec (OMS)	0%	10 days	Wed 20/11/13	Thu 05/12/13														
395	Inclusion of Comments Custom Reporting Spec (OMS)	0%	7 days	Mon 25/11/13	Thu 05/12/13														
396	Acceptance of Custom Reporting Spec (OMS)	0%	1 day	Fri 06/12/13	Fri 06/12/13														
397	IVR & Responder Interface Specification (OMS)	0%	18 days	Tue 03/12/13	Mon 30/12/13														
398	IVR & Responder Interface Spec (OMS)	0%	8 days	Tue 03/12/13	Thu 12/12/13														
399	Delivery of IVR & Responder Interface Spec (OMS)	0%	1 day	Fri 13/12/13	Fri 13/12/13														
400	Review of IVR & Responder Interface Spec (OMS)	0%	8 days	Mon 16/12/13	Fri 27/12/13														
401	Inclusion of Comments IVR & Responder Interface Spec (OMS)	0%	5 days	Thu 19/12/13	Fri 27/12/13														
402	Acceptance of IVR & Responder Interface Spec (OMS)	0%	1 day	Mon 30/12/13	Mon 30/12/13														
403	CIS & Responder Interface Specification (OMS)	0%	18 days	Mon 16/12/13	Fri 10/01/14														
404	CIS & Responder Interface Spec (OMS)	0%	8 days	Mon 16/12/13	Fri 27/12/13														
405	Delivery of CIS & Responder Interface Spec (OMS)	0%	1 day	Mon 30/12/13	Mon 30/12/13														
406	Review of CIS & Responder Interface Spec (OMS)	0%	8 days	Tue 31/12/13	Thu 09/01/14														
407	Inclusion of Comments CIS & Responder Interface Spec (OMS)	0%	5 days	Fri 03/01/14	Thu 09/01/14														
408	Acceptance of CIS & Responder Interface Spec (OMS)	0%	1 day	Fri 10/01/14	Fri 10/01/14														
409	SCADA & Responder Interface Specification (OMS)	0%	22 days	Tue 31/12/13	Thu 30/01/14														
410	SCADA & Responder Interface Spec (OMS)	0%	10 days	Tue 31/12/13	Mon 13/01/14														
411	Delivery of SCADA & Responder Interface Spec (OMS)	0%	1 day	Tue 14/01/14	Tue 14/01/14														
412	Review of SCADA & Responder Interface Spec (OMS)	0%	10 days	Wed 15/01/14	Wed 29/01/14														
413	Inclusion of Comments SCADA & Responder Interface Spec (OMS)	0%	7 days	Tue 21/01/14	Wed 29/01/14														
414	Acceptance of SCADA & Responder Interface Spec (OMS)	0%	1 day	Thu 30/01/14	Thu 30/01/14														
415	AVL & Responder Interface Specification (OMS)	0%	22 days	Wed 15/01/14	Fri 14/02/14														
416	AVL & Responder Interface Spec (OMS)	0%	10 days	Wed 15/01/14	Wed 29/01/14														
417	Delivery of AVL & Responder Interface Spec (OMS)	0%	1 day	Thu 30/01/14	Thu 30/01/14														
418	Review of AVL & Responder Interface Spec (OMS)	0%	10 days	Fri 31/01/14	Thu 13/02/14														
419	Inclusion of Comments AVL & Responder Interface Spec (OMS)	0%	7 days	Wed 05/02/14	Thu 13/02/14														
420	Acceptance of AVL & Responder Interface Spec (OMS)	0%	1 day	Fri 14/02/14	Fri 14/02/14														
421	Testing Plan (OMS)	0%	21 days	Fri 06/12/13	Tue 07/01/14														
422	Document Testing Plan (OMS)	0%	10 days	Fri 06/12/13	Thu 19/12/13														
423	Review of Testing Plan (OMS)	0%	10 days	Fri 20/12/13	Mon 06/01/14														
424	Acceptance of Testing Plan (OMS)	0%	1 day	Tue 07/01/14	Tue 07/01/14														
425	Implementation Plan (OMS)	0%	21 days	Wed 08/01/14	Thu 06/02/14														
426	Document Implementation Plan (OMS)	0%	10 days	Wed 08/01/14	Wed 22/01/14														
427	Review of Implementation Plan (OMS)	0%	10 days	Thu 23/01/14	Wed 05/02/14														
428	Acceptance of Implementation Plan (OMS)	0%	1 day	Thu 06/02/14	Thu 06/02/14														
429	Evaluate Project Plan (OMS)	0%	3 days	Fri 06/12/13	Tue 10/12/13														
430	Replan If Necessary (OMS)	0%	3 days	Wed 11/12/13	Fri 13/12/13														
431	Configure Test Environment (OMS)	0%	63 days	Wed 06/11/13	Mon 10/02/14														
432	Infrastructure (OMS)	0%	13 days	Fri 06/12/13	Tue 24/12/13														
433	Build Virtual Servers (OMS)	0%	3 days	Fri 06/12/13	Tue 10/12/13														
434	Configure Servers (OMS)	0%	3 days	Wed 11/12/13	Fri 13/12/13														
435	Configure Security (OMS)	0%	2 days	Mon 16/12/13	Tue 17/12/13														
436	Bring Servers Online (OMS)	0%	1 day	Wed 18/12/13	Wed 18/12/13														

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

0%

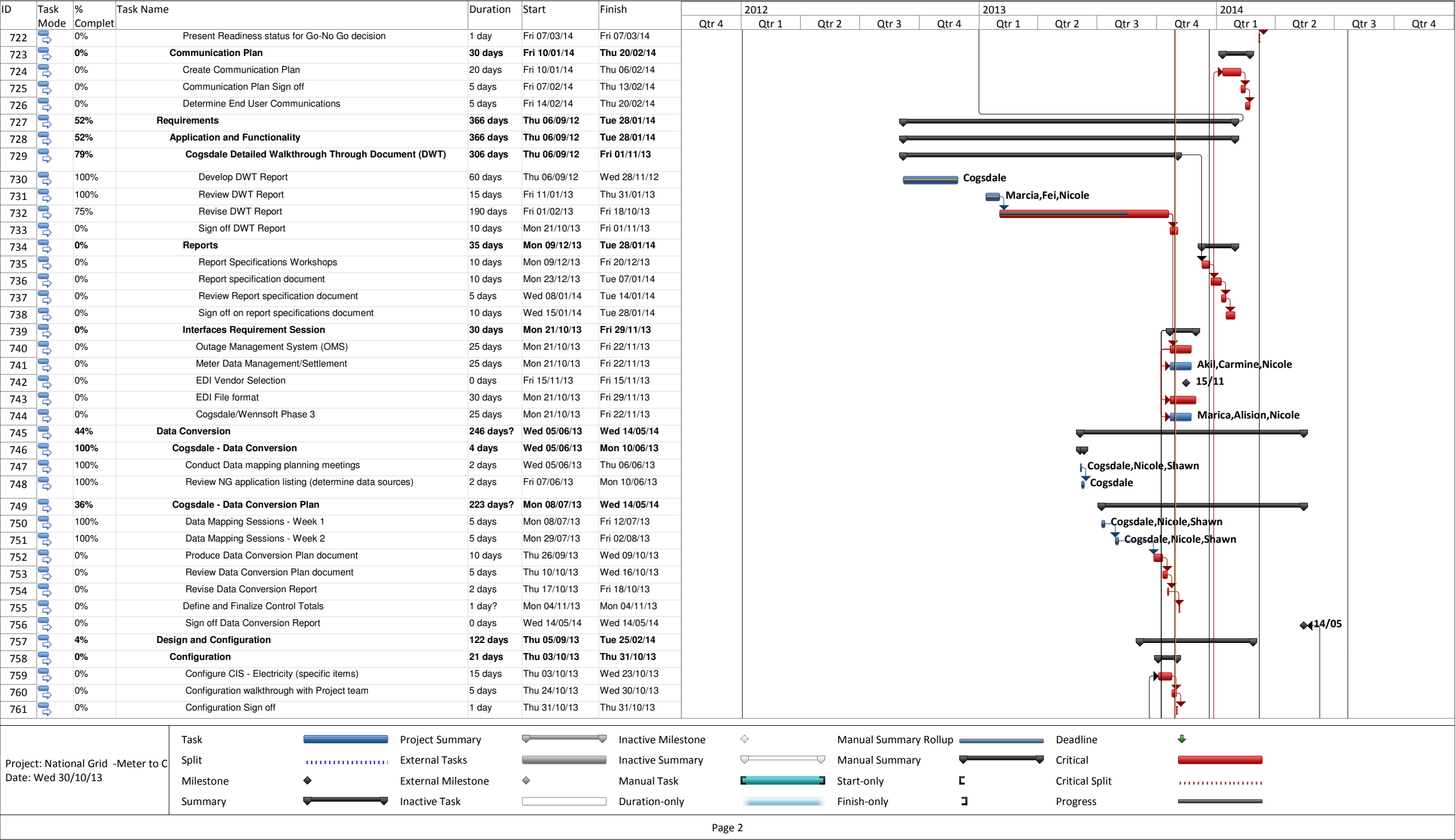
0%

</

5005 Q4 2013: Engineering Ops Project Plan																			
ID	Task Name	% Complete	Duration	Start	Finish	2012					2013				2014				
						Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1
437	Configure Citrix Environment (OMS)	0%	3 days	Thu 19/12/13	Mon 23/12/13														
438	Test Connectivity and Availability (OMS Servers)	0%	1 day	Tue 24/12/13	Tue 24/12/13														
439	Databases (OMS)	0%	46 days	Wed 06/11/13	Wed 15/01/14														
440	Extract National Grid Data (OMS)	0%	5 days	Wed 06/11/13	Wed 13/11/13														
441	Acquire National Grid Data (OMS)	0%	1 day	Thu 14/11/13	Thu 14/11/13														
442	Install & Configure Databases (OMS)	0%	3 days	Fri 27/12/13	Tue 31/12/13														
443	Install and Configure ArcSDE (OMS)	0%	3 days	Wed 01/01/14	Fri 03/01/14														
444	Load Test Data (OMS)	0%	5 days	Mon 06/01/14	Fri 10/01/14														
445	Tune Database (OMS)	0%	2 days	Mon 13/01/14	Tue 14/01/14														
446	Test Connectivity and Availability (OMS Databases)	0%	1 day	Wed 15/01/14	Wed 15/01/14														
447	Software (OMS)	0%	14 days	Thu 16/01/14	Wed 05/02/14														
448	Responder Configuration Workshops & Spec	0%	3 days	Thu 16/01/14	Tue 21/01/14														
449	Install and Configure Business Server (OMS)	0%	3 days	Wed 22/01/14	Fri 24/01/14														
450	Install and Configure Web Server (OMS)	0%	3 days	Mon 27/01/14	Wed 29/01/14														
451	Install and Configure Responder on Citrix (OMS)	0%	3 days	Thu 30/01/14	Mon 03/02/14														
452	Test Connectivity and Availability (OMS Software)	0%	2 days	Tue 04/02/14	Wed 05/02/14														
453	Test the Full System Configuration (OMS)	0%	3 days	Thu 06/02/14	Mon 10/02/14														
454	Development (OMS)	0%	93 days	Mon 09/12/13	Mon 21/04/14														
455	Custom Reports (OMS)	0%	16 days	Mon 09/12/13	Wed 01/01/14														
456	Custom Reports Development (OMS)	0%	10 days	Mon 09/12/13	Fri 20/12/13														
457	Custom Reports Prototype & Code Review (OMS)	0%	1 day	Mon 23/12/13	Mon 23/12/13														
458	Final Custom Reports Development (OMS)	0%	5 days	Tue 24/12/13	Wed 01/01/14														
459	IVR Interface (OMS)	0%	18 days	Thu 02/01/14	Tue 28/01/14														
460	Initial IVR Interface Development (OMS)	0%	10 days	Thu 02/01/14	Wed 15/01/14														
461	IVR Interface Prototype & Code Review (OMS)	0%	1 day	Thu 16/01/14	Thu 16/01/14														
462	Final IVR Interface Development (OMS)	0%	7 days	Fri 17/01/14	Tue 28/01/14														
463	CIS Interface (OMS)	0%	18 days	Wed 29/01/14	Fri 21/02/14														
464	Initial CIS Interface Development (OMS)	0%	10 days	Wed 29/01/14	Tue 11/02/14														
465	CIS Interface Prototype & Code Review (OMS)	0%	1 day	Wed 12/02/14	Wed 12/02/14														
466	Final CIS Interface Development (OMS)	0%	7 days	Thu 13/02/14	Fri 21/02/14														
467	SCADA Interface (OMS)	0%	16 days	Mon 31/03/14	Mon 21/04/14														
468	Initial SCADA Interface Development (OMS)	0%	8 days	Mon 31/03/14	Wed 09/04/14														
469	SCADA Interface Prototype & Code Review (OMS)	0%	1 day	Thu 10/04/14	Thu 10/04/14														
470	Final SCADA Interface Development (OMS)	0%	7 days	Fri 11/04/14	Mon 21/04/14														
471	AVL Interface (OMS)	0%	15 days	Mon 24/02/14	Fri 14/03/14														
472	Initial AVL Interface Development (OMS)	0%	7 days	Mon 24/02/14	Tue 04/03/14														
473	AVL Interface Prototype & Code Review (OMS)	0%	1 day	Wed 05/03/14	Wed 05/03/14														
474	Final AVL Interface Development (OMS)	0%	7 days	Thu 06/03/14	Fri 14/03/14														
475	Responder Functional Review (OMS)	0%	12 days	Mon 24/02/14	Tue 11/03/14														
476	Responder Functional Review (OMS)	0%	2 days	Mon 24/02/14	Tue 25/02/14														
477	Responder Integration Functional Review (OMS)	0%	5 days	Wed 26/02/14	Tue 04/03/14														
478	Resolve Functional Issues (OMS)	0%	5 days	Wed 05/03/14	Tue 11/03/14														
479	Testing (OMS)	0%	56 days	Wed 12/03/14	Wed 28/05/14														
480	User Training (OMS)	0%	5 days	Wed 12/03/14	Tue 18/03/14														
481	Install & Configure Build 1 (OMS)	0%	1 day	Wed 19/03/14	Wed 19/03/14														
482	Data Testing (OMS)	0%	5 days	Thu 20/03/14	Wed 26/03/14														
483	Install & Configure Build 2 (OMS)	0%	1 day	Thu 27/03/14	Thu 27/03/14														
484	Functional Testing (OMS)	0%	10 days	Fri 28/03/14	Thu 10/04/14														
485	Install & Configure Build 3 (OMS)	0%	1 day	Fri 11/04/14	Fri 11/04/14														
486	Integration Testing (OMS)	0%	10 days	Mon 14/04/14	Fri 25/04/14														
487	Install & Configure Build 4 (OMS)	0%	1 day	Mon 28/04/14	Mon 28/04/14														
488	Performance Testing (OMS)	0%	10 days	Tue 29/04/14	Mon 12/05/14														
489	Install & Configure Build 5 (OMS)	0%	1 day	Tue 13/05/14	Tue 13/05/14														
490	Parallel Testing with NGrid (OMS)	0%	11 days	Wed 14/05/14	Wed 28/05/14														
491	User Acceptance Testing (OMS)	0%	5 days	Wed 14/05/14	Tue 20/05/14														
492	System Sign-Off & Acceptance (OMS)	0%	1 day	Wed 21/05/14	Wed 21/05/14														
493	Implementation (OMS)	0%	16 days	Wed 14/05/14	Wed 04/06/14														
494	Extract Final Cut of NGrid Data (OMS)	0%	5 days	Wed 14/05/14	Tue 20/05/14														
495	Load Final Cut of NGrid Data (OMS)	0%	2 days	Wed 21/05/14	Thu 22/05/14														
496	Execute Cutover Plan (OMS)	0%	2 days	Thu 29/05/14	Fri 30/05/14														
497	Review Cutover Checklist (OMS)	0%	2 days	Mon 02/06/14	Tue 03/06/14														
498	Go Live (OMS)	0%	1 day	Wed 04/06/14	Wed 04/06/14														
499	Designer	3%	128 days	Mon 21/10/13	Thu 24/04/14														
500	Designer Implementation Kickoff	100%	1 day	Mon 21/10/13	Mon 21/10/13														
501	Design (Designer)	4%	75 days	Mon 21/10/13	Mon 10/02/14														
502	Design Sessions (Designer)	33%	15 days	Mon 21/10/13	Fri 08/11/13														
503	Business Process Review Workshop (Designer)	100%	2 days	Mon 21/10/13	Tue 22/10/13														
504	Designer Functional Review (Designer)	100%	3 days	Wed 23/10/13	Fri 25/10/13														
505	Design Integrations & Interfaces (Designer)	0%	4 days	Mon 28/10/13	Thu 31/10/13														
506	Integration Review w/ ERP (Designer)	0%	2 days	Fri 01/11/13	Mon 04/11/13														
507	Develop Testing Strategy (Designer)	0%	2 days	Tue 05/11/13	Wed 06/11/13														
508	Develop Implementation Plan (Designer)	0%	2 days	Thu 07/11/13	Fri 08/11/13														
509	Functional Requirements (Designer)	0%	21 days	Mon 28/10/13	Tue 26/11/13														

5005 Q4 2013: Engineering Ops Project Plan																				
ID	Task Name	% Complete	Duration	Start	Finish	Qtr 4	2012				2013				2014				Qtr 1	
							Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4		
510	Document Functional Requirements (Designer)	0%	10 days	Mon 28/10/13	Fri 08/11/13															
511	Review of Functional Requirements (Designer)	0%	10 days	Tue 12/11/13	Mon 25/11/13															
512	Acceptance of Functional Requirements (Designer)	0%	1 day	Tue 26/11/13	Tue 26/11/13															
513	Quadra & Designer Integration Specification (Designer)	0%	22 days	Tue 05/11/13	Mon 09/12/13															
514	Quadra & Designer Spec (Designer)	0%	10 days	Tue 05/11/13	Tue 19/11/13															
515	Delivery of Quadra & Designer Spec (Designer)	0%	1 day	Wed 20/11/13	Wed 20/11/13															
516	Review of Quadra & Designer Spec (Designer)	0%	10 days	Thu 21/11/13	Fri 06/12/13															
517	Inclusion of Comments Quadra & Designer Spec (Designer)	0%	7 days	Tue 26/11/13	Fri 06/12/13															
518	Acceptance of Quadra & Designer Spec (Designer)	0%	1 day	Mon 09/12/13	Mon 09/12/13															
519	Testing Plan (Designer)	0%	21 days	Tue 10/12/13	Thu 09/01/14															
520	Document Testing Plan (Designer)	0%	10 days	Tue 10/12/13	Mon 23/12/13															
521	Review of Testing Plan (Designer)	0%	10 days	Tue 24/12/13	Wed 08/01/14															
522	Acceptance of Testing Plan (Designer)	0%	1 day	Thu 09/01/14	Thu 09/01/14															
523	Implementation Plan (Designer)	0%	21 days	Fri 10/01/14	Mon 10/02/14															
524	Document Implementation Plan (Designer)	0%	10 days	Fri 10/01/14	Fri 24/01/14															
525	Review of Implementation Plan (Designer)	0%	10 days	Mon 27/01/14	Fri 07/02/14															
526	Acceptance of Implementation Plan (Designer)	0%	1 day	Mon 10/02/14	Mon 10/02/14															
527	Evaluate Project Plan (Designer)	0%	3 days	Tue 10/12/13	Thu 12/12/13															
528	Replan If Necessary (Designer)	0%	3 days	Fri 13/12/13	Tue 17/12/13															
529	Configure Test Environment (Designer)	0%	20 days	Wed 27/11/13	Mon 30/12/13															
530	Databases (Designer)	0%	6 days	Wed 27/11/13	Fri 06/12/13															
531	Load Test Data (Designer)	0%	5 days	Wed 27/11/13	Thu 05/12/13															
532	Test Connectivity and Availability (Designer Databases)	0%	1 day	Fri 06/12/13	Fri 06/12/13															
533	Software (Designer)	0%	11 days	Mon 09/12/13	Mon 23/12/13															
534	Install and Configure Designer (Designer)	0%	5 days	Mon 09/12/13	Fri 13/12/13															
535	Develop Design Symbol Set	0%	3 days	Mon 16/12/13	Wed 18/12/13															
536	Develop Work Sketch Templates	0%	2 days	Thu 19/12/13	Fri 20/12/13															
537	Test Connectivity and Availability (Designer Software)	0%	1 day	Mon 23/12/13	Mon 23/12/13															
538	Test the Full System Configuration (Designer)	0%	3 days	Tue 24/12/13	Mon 30/12/13															
539	Development (Designer)	0%	50 days	Tue 10/12/13	Thu 20/02/14															
540	Development Designer	0%	50 days	Tue 10/12/13	Thu 20/02/14															
541	Quadra & Designer Integration (Designer)	0%	34 days	Tue 10/12/13	Wed 29/01/14															
542	Initial Quadra Integration Development (Designer)	0%	20 days	Tue 10/12/13	Wed 08/01/14															
543	Quadra Integration Prototype & Code Review (Designer)	0%	2 days	Thu 09/01/14	Fri 10/01/14															
544	Final Quadra Integration Development (Designer)	0%	12 days	Mon 13/01/14	Wed 29/01/14															
545	Designer Configuration (Designer)	0%	16 days	Thu 30/01/14	Thu 20/02/14															
546	Designer Configuration Workshop (Designer)	0%	5 days	Thu 30/01/14	Wed 05/02/14															
547	Compatible Unit Library (Designer)	0%	11 days	Thu 06/02/14	Thu 20/02/14															
548	Provide Utility CU Library (Designer)	0%	2 days	Thu 06/02/14	Fri 07/02/14															
549	Initial CU Development in Workflow Manager (Designer)	0%	4 days	Mon 10/02/14	Thu 13/02/14															
550	CU Workshop (Designer)	0%	3 days	Fri 14/02/14	Tue 18/02/14															
551	Configure Extended Data Manager in Designer (Designer)	0%	2 days	Wed 19/02/14	Thu 20/02/14															
552	Testing (Designer)	0%	40 days	Fri 21/02/14	Thu 17/04/14															
553	User Training (Designer)	0%	5 days	Fri 21/02/14	Thu 27/02/14															
554	Install & Configure Build 1 (Designer)	0%	1 day	Fri 28/02/14	Fri 28/02/14															
555	Functional Testing (Designer)	0%	10 days	Mon 03/03/14	Fri 14/03/14															
556	Install & Configure Build 2 (Designer)	0%	1 day	Mon 17/03/14	Mon 17/03/14															
557	Integration Testing (Designer)	0%	10 days	Tue 18/03/14	Mon 31/03/14															
558	Install & Configure Build 3 (Designer)	0%	1 day	Tue 01/04/14	Tue 01/04/14															
559	Performance Testing (Designer)	0%	5 days	Wed 02/04/14	Tue 08/04/14															
560	Install & Configure Build 4 (Designer)	0%	1 day	Wed 09/04/14	Wed 09/04/14															
561	User Acceptance Testing (Designer)	0%	5 days	Thu 10/04/14	Wed 16/04/14															
562	System Sign-Off & Acceptance (Designer)	0%	1 day	Thu 17/04/14	Thu 17/04/14															
563	Implementation (Designer)	0%	17 days	Wed 02/04/14	Thu 24/04/14															
564	Extract Final Cut of NGrid Data (Electric GIS)	0%	5 days	Wed 02/04/14	Tue 08/04/14															
565	Load Final Cut of NGrid Data (Electric GIS)	0%	2 days	Wed 09/04/14	Thu 10/04/14															
566	Execute Cutover Plan (Designer)	0%	2 days	Fri 18/04/14	Mon 21/04/14															
567	Review Cutover Checklist (Designer)	0%	2 days	Tue 22/04/14	Wed 23/04/14															
568	Go Live (ArcFM & Designer)	0%	1 day	Thu 24/04/14	Thu 24/04/14															
569																				
570	Liberty Complete	0%	1 day	Thu 30/10/14	Thu 30/10/14															◆ 30/10

Project: National Grid -Meter to C Date: Wed 30/10/13	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
	Split		External Tasks		Inactive Summary		Manual Summary		Critical	
	Milestone		External Milestone		Manual Task		Start-only		Critical Split	
	Summary		Inactive Task		Duration-only		Finish-only		Progress	



ID	Task Mode	% Complet	Task Name	Duration	Start	Finish		2012				2013				2014			
							Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
762		0%	Security	5 days	Wed 18/12/13	Tue 24/12/13													
764		14%	Data Conversion	67 days	Thu 05/09/13	Fri 06/12/13													
765		14%	Development	67 days	Thu 05/09/13	Fri 06/12/13													
773		0%	Interfaces	80 days	Mon 04/11/13	Tue 25/02/14													
795		0%	Contact Centre	64 days	Tue 04/02/14	Fri 02/05/14													
808		2%	IVR - Telecom	162 days	Fri 11/10/13	Mon 26/05/14													
809		13%	Requirements	27.5 days	Fri 11/10/13	Tue 19/11/13													
810		100%	Review Requirements template	3 days	Fri 11/10/13	Tue 15/10/13													
811		0%	Requirement Gathering sessions(including OMS integration)	20 days	Wed 16/10/13	Tue 12/11/13													
812		10%	Obtain sign off	5 days	Fri 01/11/13	Tue 19/11/13													
813		0%	Design & Configuration	32 days	Wed 13/11/13	Mon 30/12/13													
820		0%	Build and Configuration	88 days	Tue 31/12/13	Thu 01/05/14													
827		0%	Test Preparation	40 days	Wed 12/03/14	Tue 06/05/14													
828		0%	Test Plan - Test Cycle 4	21 days	Wed 12/03/14	Wed 09/04/14													
829		0%	Update Test Scope	1 day	Wed 12/03/14	Wed 12/03/14													
830		0%	Update Testing/Scenario Scripts	4 days	Thu 13/03/14	Tue 18/03/14													
831		0%	Review test plan	4 days	Wed 19/03/14	Mon 24/03/14													
832		0%	Sign off on Test Plan	2 days	Tue 25/03/14	Wed 26/03/14													
833		0%	Test Execution	10 days	Thu 27/03/14	Wed 09/04/14													
834		0%	Test Plan - UAT	19 days	Thu 10/04/14	Tue 06/05/14													
835		0%	Update Test Scope	5 days	Thu 10/04/14	Wed 16/04/14													
836		0%	Update Testing/Scenario Scripts	5 days	Thu 17/04/14	Wed 23/04/14													
837		0%	Review Test Plan	2 days	Thu 24/04/14	Fri 25/04/14													
838		0%	Sign off on Test Plan	2 days	Mon 28/04/14	Tue 29/04/14													
839		0%	Conduct UAT	5 days	Wed 30/04/14	Tue 06/05/14													
840		0%	Business Readiness	20 days	Thu 01/05/14	Mon 26/05/14													
841		0%	Cutover Planning	20 days	Thu 01/05/14	Mon 26/05/14													
842		0%	Take ownership of 1800 number	1 day	Thu 01/05/14	Thu 01/05/14													
843		0%	Link telephone number to IVR	1 day	Mon 26/05/14	Mon 26/05/14													
844		4%	Bill Print ,Customer Payment (Fiserv)	86 days	Tue 15/10/13	Thu 13/02/14													
845		17%	Requirements	40 days	Tue 15/10/13	Mon 09/12/13													
846		25%	Requirements Bill Print	20 days	Tue 15/10/13	Mon 11/11/13													
847		0%	Requirements Payment processing	5 days	Tue 26/11/13	Mon 02/12/13													
848		0%	Obtain Sign off	5 days	Tue 03/12/13	Mon 09/12/13													
849		0%	Design and Configuration	46 days	Tue 10/12/13	Thu 13/02/14													
854		65%	Non Interval Meter Reading Implementation (Itron FCS)	472 days	Mon 25/06/12	Fri 11/04/14													
855		100%	Project Initiation	14 days	Mon 25/06/12	Thu 12/07/12													
861		100%	Discovery	11 days	Fri 13/07/12	Fri 27/07/12													
868		100%	Business Case	18 days	Wed 29/08/12	Fri 21/09/12													
873		89%	Requirements	403 days	Fri 13/07/12	Fri 24/01/14													

Project: National Grid -Meter to C
Date: Wed 30/10/13

Task

Project Summary

Split

External Tasks

Milestone

External Milestone

Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary RollupManual SummaryStart-onlyFinish-onlyDeadlineCriticalCritical SplitProgress

ID	Task Mode	% Complet	Task Name	Duration	Start	Finish	2012				2013				2014			
							Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
874		100%	Initial meeting discussion to discuss requirements	4 days	Fri 13/07/12	Wed 18/07/12												
875		100%	Develop draft project Requirements documents	3 days	Thu 19/07/12	Mon 23/07/12												
876		100%	Project requirement review meeting	2 days	Tue 24/07/12	Wed 25/07/12												
877		100%	Project Requirement revisions	2 days	Thu 26/07/12	Fri 27/07/12												
878		100%	Sign off on project requirement	1 day	Mon 30/07/12	Mon 30/07/12												
879		100%	Project Statement of Work	192 days	Tue 31/07/12	Wed 24/04/13												
880		100%	Itron Compilation of SOW Document	6 days	Tue 31/07/12	Tue 07/08/12												
881		100%	Delivery of Draft SOW Document	6 days	Wed 08/08/12	Wed 15/08/12												
882		100%	Interval SOW Document Review Meeting	90 days	Mon 03/12/12	Fri 05/04/13												
883		100%	Itron Inclusion of SOW Revisions	10 days	Mon 08/04/13	Fri 19/04/13												
884		100%	Liberty Acceptance of SOW Revisions	3 days	Mon 22/04/13	Wed 24/04/13												
885		81%	IT infrastructure and Analysis	348 days	Fri 28/09/12	Fri 24/01/14												
886		0%	Create Purchase Order for Itron Software	3 days	Wed 01/01/14	Fri 03/01/14												
887		100%	Define data interface (MVRs, P4, XML)	1 day	Fri 28/12/12	Fri 28/12/12												
888		100%	Finalize and acquire Database license	56 days	Fri 28/09/12	Fri 15/03/13												
889		100%	Finalize areas of responsibilities	15 days	Mon 18/03/13	Fri 05/04/13												
890		0%	Review Itron Project Plan	10 days	Mon 18/11/13	Fri 29/11/13												
891		0%	Finalize Itron Project Plan	2 days	Mon 06/01/14	Tue 07/01/14												
892		0%	Sign off on Project Plan	0 days	Tue 07/01/14	Tue 07/01/14												
893		100%	Review hardware and database requirements	2 days	Wed 08/01/14	Thu 09/01/14												
894		100%	Purchase Hardware (Computers and other peripherals)	6 days	Fri 10/01/14	Fri 17/01/14												
895		100%	Provide training material on handhelds, desktop and server	1 day	Mon 20/01/14	Mon 20/01/14												
896		0%	Create parallel testing plan in conjunction with Itron and NG	4 days	Tue 21/01/14	Fri 24/01/14												
897		50%	Integration Requirements	277 days	Fri 26/10/12	Tue 12/11/13												
898		100%	Create Cogsdale data interface requirements	3 days	Fri 26/10/12	Thu 02/05/13												
899		100%	Review Integration requirements with Business	4 days	Fri 03/05/13	Wed 08/05/13												
900		0%	Create interval data export file from FCS to MV90	5 days	Mon 04/11/13	Fri 08/11/13												
901		0%	Review Integration requirements with Business	2 days	Mon 11/11/13	Tue 12/11/13												
902		39%	Design & Configuration	100 days	Thu 21/11/13	Fri 11/04/14												
926		0%	Quality Assurance	84 days	Tue 03/12/13	Tue 01/04/14												
940		36%	Interval Meter Reading Implementation (MV90)	495 days	Tue 03/07/12	Thu 22/05/14												
941		100%	Project Initiation	8 days	Tue 03/07/12	Thu 12/07/12												
947		100%	Project Discovery (Electric)	46 days	Fri 13/07/12	Fri 14/09/12												
955		100%	Requirements (Electric)	10 days	Fri 13/07/12	Thu 26/07/12												
961		24%	Integration Requirements	37 days	Mon 21/10/13	Tue 10/12/13												
962		75%	Create Cogsdale data interface requirements	15 days	Mon 21/10/13	Fri 08/11/13												
963		0%	Review Integration requirements with Business	4 days	Mon 11/11/13	Thu 14/11/13												
964		0%	Create data interface requirements with Settlement System	25 days	Mon 04/11/13	Fri 06/12/13												
965		0%	Review Integration requirements with Business	2 days	Mon 09/12/13	Tue 10/12/13												

Project: National Grid -Meter to C

Date: Wed 30/10/13

Task

Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Deadline

Critical

Critical Split

Progress

Page 4

ID	Task Mode	% Complet	Task Name	Duration	Start	Finish	2012				2013				2014				
							Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
966		21%	IT infrastructure and Analysis	130 days	Wed 20/11/13	Thu 22/05/14													
1012		0%	Energy Efficiency	40 days	Mon 11/11/13	Tue 07/01/14													
1017		0%	Sales and Marketing (iAvenue - contact management)	144 days?	Mon 18/11/13	Thu 05/06/14													
1042		5%	Quality Assurance	169 days	Thu 19/09/13	Thu 15/05/14													
1043		5%	Testing	169 days	Thu 19/09/13	Thu 15/05/14													
1044		100%	Test Strategy	20 days	Thu 19/09/13	Wed 16/10/13													
1045		100%	Define Test Strategy	2 wks	Thu 19/09/13	Wed 02/10/13													
1046		100%	Review and Revise Test Strategy	8 days	Thu 03/10/13	Mon 14/10/13													
1047		100%	Sign off on Test Strategy	0 days	Mon 14/10/13	Mon 14/10/13													
1048		100%	Train users on Test Management tool	1 day	Tue 15/10/13	Tue 15/10/13													
1049		100%	Develop Testing/Scenario Scripts	20 days	Thu 19/09/13	Wed 16/10/13													
1050		27%	Test Cycle 1	42 days	Fri 11/10/13	Mon 09/12/13													
1051		73%	Test Preparation	19 days	Fri 11/10/13	Wed 06/11/13													
1052		90%	Define Test Scope	1 day	Thu 17/10/13	Thu 17/10/13													
1053		95%	Develop Test Scope Document	3 days	Fri 18/10/13	Tue 22/10/13													
1054		95%	Develop Testing/Scenario Scripts	10 days	Wed 23/10/13	Tue 05/11/13													
1055		95%	Set up Test Management tool	1 day	Wed 06/11/13	Wed 06/11/13													
1056		0%	Sign off on Test Scope Document	1 day	Wed 23/10/13	Wed 23/10/13													
1057		86%	Test Environment Setup	6 days	Thu 17/10/13	Thu 24/10/13													
1058		100%	Determine Test Environment code Requirement	1 day	Thu 17/10/13	Thu 17/10/13													
1059		100%	Enter CIS Configuration	5 days	Thu 17/10/13	Wed 23/10/13													
1060		0%	Add users and appropriate security	1 day	Thu 24/10/13	Thu 24/10/13													
1061		17%	Data Conversion	14 days	Fri 11/10/13	Wed 30/10/13													
1062		100%	Data Extract Delivered	1 day	Fri 11/10/13	Fri 11/10/13													
1063		0%	Execute Conversion	5 days	Thu 24/10/13	Wed 30/10/13													
1064		0%	Test Execution	25 days	Thu 31/10/13	Wed 04/12/13													
1065		0%	Regression Test Gas	5 days	Thu 31/10/13	Wed 06/11/13													
1066		0%	Execute test cases	20 days	Thu 07/11/13	Wed 04/12/13													
1067		0%	NG Data Verification and Validation	15 days	Thu 31/10/13	Wed 20/11/13													
1068		0%	Exit	3 days	Thu 05/12/13	Mon 09/12/13													
1069		0%	Review Results	1 day	Thu 05/12/13	Thu 05/12/13													
1070		0%	Assigned all defects	2 days	Thu 05/12/13	Fri 06/12/13													
1071		0%	Determine workaround if required	3 days	Thu 05/12/13	Mon 09/12/13													
1072		0%	Generate Summary Report	2 days	Thu 05/12/13	Fri 06/12/13													
1073		0%	Archive test data	1 day	Fri 06/12/13	Fri 06/12/13													
1074		0%	Test Cycle 1 Complete	0 days	Fri 06/12/13	Fri 06/12/13													
1075		0%	Test Cycle 2	54 days	Mon 11/11/13	Mon 27/01/14													
1076		0%	Test Preparation	26 days	Mon 11/11/13	Mon 16/12/13													
1077		0%	Define Test Scope	2 days	Tue 03/12/13	Wed 04/12/13													
1078		0%	Develop Test Scope Document	2 days	Thu 05/12/13	Fri 06/12/13													

Project: National Grid -Meter to C

Date: Wed 30/10/13

Task

Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Deadline

Critical

Critical Split

Progress

Page 5

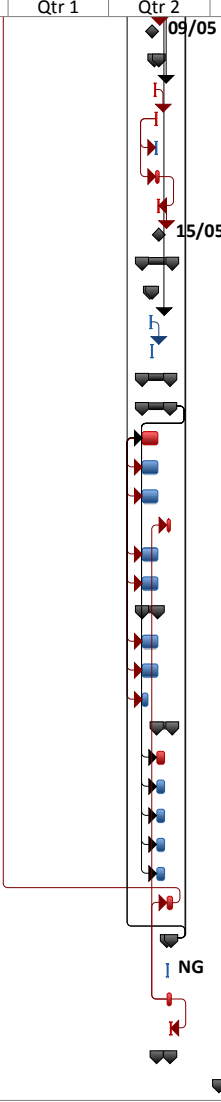
ID	Task Mode	% Comple	Task Name	Duration	Start	Finish	2012					2013				2014				
							Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	
1079		0%	Develop Testing/Scenario Scripts	10 days	Tue 03/12/13	Mon 16/12/13														
1080		0%	Set up Test Management tool	1 day	Tue 03/12/13	Tue 03/12/13														
1081		0%	Sign off on Test Scope Document	0 days	Fri 06/12/13	Fri 06/12/13														
1082		0%	Test Environment Setup	6 days	Mon 02/12/13	Mon 09/12/13														
1083		0%	Determine Test Environment code Requirement	1 day	Mon 02/12/13	Mon 02/12/13														
1084		0%	Enter CIS Configuration	5 days	Mon 02/12/13	Fri 06/12/13														
1085		0%	Add users and appropriate security	1 day	Mon 09/12/13	Mon 09/12/13														
1086		0%	Data Conversion	25 days	Mon 11/11/13	Fri 13/12/13														
1087		0%	Data Extract Delivered	0 days	Mon 11/11/13	Mon 11/11/13														
1088		0%	Execute Conversion	5 days	Mon 09/12/13	Fri 13/12/13														
1089		0%	Test Execution	23 days	Mon 16/12/13	Fri 17/01/14														
1090		0%	Conduct Regression Testing	10 days	Mon 16/12/13	Tue 31/12/13														
1091		0%	Execute test cases	23 days	Mon 16/12/13	Fri 17/01/14														
1092		0%	NG Data Verification and Validation	23 days	Mon 16/12/13	Fri 17/01/14														
1093		0%	Exit	6 days	Mon 20/01/14	Mon 27/01/14														
1094		0%	Review Results	1 day	Mon 20/01/14	Mon 20/01/14														
1095		0%	Assigned all defects	2 days	Mon 20/01/14	Tue 21/01/14														
1096		0%	Determine workaround if required	4 days	Wed 22/01/14	Mon 27/01/14														
1097		0%	Generate Summary Report	2 days	Tue 21/01/14	Wed 22/01/14														
1098		0%	Archive test data	1 day	Thu 23/01/14	Thu 23/01/14														
1099		0%	Test Cycle 2 Complete	0 days	Thu 23/01/14	Thu 23/01/14														
1100		0%	Test Cycle 3 - With System Integration Testing	50 days	Fri 03/01/14	Thu 13/03/14														
1101		0%	Test Preparation	20 days	Fri 03/01/14	Thu 30/01/14														
1102		0%	Define Test Scope	2 days	Tue 07/01/14	Wed 08/01/14														
1103		0%	Develop Test Scope Document	2 days	Thu 09/01/14	Fri 10/01/14														
1104		0%	Develop Testing/Scenario Scripts	7 days	Mon 13/01/14	Tue 21/01/14														
1105		0%	Set up Test Management tool	1 day	Wed 22/01/14	Wed 22/01/14														
1106		0%	Sign off on Test Scope Document	5 days	Mon 13/01/14	Fri 17/01/14														
1107		0%	Test Environment Setup - All Systems	12 days	Fri 03/01/14	Mon 20/01/14														
1108		0%	Determine Test Environment code Requirement	1 day	Mon 20/01/14	Mon 20/01/14														
1109		0%	Enter CIS Configuration	5 days	Fri 03/01/14	Thu 09/01/14														
1110		0%	Enter Configuration for all integrated systems	5 days	Fri 03/01/14	Thu 09/01/14														
1111		0%	Add users and appropriate security for all systems	1 day	Fri 10/01/14	Fri 10/01/14														
1112		0%	Data Conversion - All systems	20 days	Fri 03/01/14	Thu 30/01/14														
1113		0%	Determine Data Requirements for all Systems	1 day	Fri 24/01/14	Fri 24/01/14														
1114		0%	Build Data Imports	10 days	Fri 03/01/14	Thu 16/01/14														
1115		0%	Data Extract Delivered	0 days	Fri 24/01/14	Fri 24/01/14														
1116		0%	Dress Rehearsal	5 days	Fri 24/01/14	Thu 30/01/14														
1117		0%	Execution	25 days	Fri 31/01/14	Thu 06/03/14														

Project: National Grid -Meter to C Date: Wed 30/10/13	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
	Split		External Tasks		Inactive Summary		Manual Summary		Critical	
	Milestone		External Milestone		Manual Task		Start-only		Critical Split	
	Summary		Inactive Task		Duration-only		Finish-only		Progress	

ID	Task Mode	% Complet	Task Name	Duration	Start	Finish	2012					2013				2014			
							Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1118		0%	Business Process Tests	20 days	Fri 31/01/14	Thu 27/02/14													
1119		0%	Execute Test Cases	15 days	Fri 31/01/14	Thu 20/02/14													
1120		0%	NG Data Verification and Validation	20 days	Fri 31/01/14	Thu 27/02/14													
1121		0%	System Integration Testing	25 days	Fri 31/01/14	Thu 06/03/14													
1122		0%	EDI - Customer Choice	25 days	Fri 31/01/14	Thu 06/03/14													
1123		0%	Wennsoft - Service Orders	25 days	Fri 31/01/14	Thu 06/03/14													
1124		0%	Non Interval meter Reading - ITRON FS	25 days	Fri 31/01/14	Thu 06/03/14													
1125		0%	Interval meter data - MV90	25 days	Fri 31/01/14	Thu 06/03/14													
1126		0%	General Ledger	25 days	Fri 31/01/14	Thu 06/03/14													
1127		0%	Settlement System	15 days	Fri 31/01/14	Thu 20/02/14													
1128		0%	Payments (Lockbox and EFT)	25 days	Fri 31/01/14	Thu 06/03/14													
1129		0%	Credit, Collection interfaces (Collection Agency, Dialer)	25 days	Fri 31/01/14	Thu 06/03/14													
1130		0%	Bill Print	25 days	Fri 31/01/14	Thu 06/03/14													
1131		0%	IVR Self Service	25 days	Fri 31/01/14	Thu 06/03/14													
1132		0%	GIS, OMS	25 days	Fri 31/01/14	Thu 06/03/14													
1133		0%	Web Self Service	25 days	Fri 31/01/14	Thu 06/03/14													
1134		0%	Energy Assistance	25 days	Fri 31/01/14	Thu 06/03/14													
1135		0%	Performance Testing	7 days	Fri 07/02/14	Mon 17/02/14													
1136		0%	Conduct testing with 3x data load	7 days	Fri 07/02/14	Mon 17/02/14													
1137		0%	Execute all business process tests	7 days	Fri 07/02/14	Mon 17/02/14													
1138		0%	Exit	6 days	Thu 06/03/14	Thu 13/03/14													
1139		0%	Generate Summary Report	1 day	Thu 06/03/14	Thu 06/03/14													
1140		0%	Review Results	1 day	Fri 07/03/14	Fri 07/03/14													
1141		0%	Assigned all defects	1 day	Mon 10/03/14	Mon 10/03/14													
1142		0%	Determine workaround if required	4 days	Mon 10/03/14	Thu 13/03/14													
1143		0%	Archive test data	1 day	Thu 13/03/14	Thu 13/03/14													
1144		0%	Test Cycle 3 Complete	0 days	Thu 13/03/14	Thu 13/03/14													
1145		0%	CODE FREEZE IMPLEMENTED FOR ALL SYSTEMS	0 days	Thu 20/03/14	Thu 20/03/14													
1146		0%	Test Cycle 4	49 days	Fri 28/02/14	Wed 07/05/14													
1147		0%	Test Preparation	21 days	Fri 28/02/14	Fri 28/03/14													
1148		0%	Define Test Scope	2 days	Fri 28/02/14	Mon 03/03/14													
1149		0%	Develop Test Scope Document	2 days	Tue 04/03/14	Wed 05/03/14													
1150		0%	Develop Testing/Scenario Scripts	7 days	Thu 06/03/14	Fri 14/03/14													
1151		0%	Set up Test Management tool	1 day	Mon 17/03/14	Mon 17/03/14													
1152		0%	Sign off on Test Scope Document	5 days	Thu 06/03/14	Wed 12/03/14													
1153		0%	Test Environment Setup	14 days	Fri 07/03/14	Wed 26/03/14													
1154		0%	Determine Test Environment code Requirement	5 days	Fri 07/03/14	Thu 13/03/14													
1155		0%	Enter CIS Configuration	5 days	Wed 19/03/14	Tue 25/03/14													
1156		0%	Enter Configuration for all integrated systems	5 days	Wed 19/03/14	Tue 25/03/14													
1157		0%	Add users and appropriate security for all systems	1 day	Wed 26/03/14	Wed 26/03/14													
Project: National Grid -Meter to C Date: Wed 30/10/13			Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline								
			Split		External Tasks		Inactive Summary		Manual Summary		Critical								
			Milestone		External Milestone		Manual Task		Start-only		Critical Split								
			Summary		Inactive Task		Duration-only		Finish-only		Progress								
Page 7																			

Project: National Grid -Meter to C Date: Wed 30/10/13	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
	Split		External Tasks		Inactive Summary		Manual Summary		Critical	
	Milestone		External Milestone		Manual Task		Start-only		Critical Split	
	Summary		Inactive Task		Duration-only		Finish-only		Progress	

ID	Task Mode	% Complet	Task Name	Duration	Start	Finish	2012					2013				2014			
							Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1198		0%	User Acceptance sign off	0 days	Fri 09/05/14	Fri 09/05/14													
1199		0%	Exit	4 days	Mon 12/05/14	Thu 15/05/14													
1200		0%	Generate Summary Report	1 day	Mon 12/05/14	Mon 12/05/14													
1201		0%	Review Results	1 day	Tue 13/05/14	Tue 13/05/14													
1202		0%	Assigned all defects	1 day	Tue 13/05/14	Tue 13/05/14													
1203		0%	Determine workaround if required	3 days	Tue 13/05/14	Thu 15/05/14													
1204		0%	Archive test data	1 day	Thu 15/05/14	Thu 15/05/14													
1205		0%	UAT Complete	0 days	Thu 15/05/14	Thu 15/05/14													
1206		0%	Cutover	21 days	Thu 01/05/14	Tue 27/05/14													
1207		0%	Cutover Preparation	2 days	Thu 08/05/14	Fri 09/05/14													
1208		0%	Review Cutover Schedule	1 day	Thu 08/05/14	Thu 08/05/14													
1209		0%	Hold "Go Live" Walkthrough Meeting	1 day	Fri 09/05/14	Fri 09/05/14													
1210		0%	Production Environment Preparation	19 days	Thu 01/05/14	Sun 25/05/14													
1211		0%	CSS to Cogsdale Conversion	19 days	Thu 01/05/14	Sun 25/05/14													
1212		0%	IT set up hardware and apply application	10 days	Thu 01/05/14	Wed 14/05/14													
1213		0%	Prep Great Plains(Cogsdale)	10 days	Thu 01/05/14	Wed 14/05/14													
1214		0%	Apply last pristine configuration	10 days	Thu 01/05/14	Wed 14/05/14													
1215		0%	Execute conversion	3 days	Fri 23/05/14	Sun 25/05/14													
1216		0%	GIS Conversion	10 days	Thu 01/05/14	Wed 14/05/14													
1217		0%	MV90 ITRON Conversion	10 days	Thu 01/05/14	Wed 14/05/14													
1218		0%	System Configuration	10 days	Thu 01/05/14	Wed 14/05/14													
1219		0%	Configure middleware/integration endpoints	10 days	Thu 01/05/14	Wed 14/05/14													
1220		0%	Apply Cogsdale Security for end users	10 days	Thu 01/05/14	Wed 14/05/14													
1221		0%	Configure Business Objects server	3 days	Thu 01/05/14	Mon 05/05/14													
1222		0%	Promote systems	12 days	Wed 14/05/14	Tue 27/05/14													
1223		0%	Promote Bill Print	5 days	Wed 14/05/14	Tue 20/05/14													
1224		0%	Promote IVR	5 days	Wed 14/05/14	Tue 20/05/14													
1225		0%	Promote business objects code	5 days	Wed 14/05/14	Tue 20/05/14													
1226		0%	Promote Cogsdale code	5 days	Wed 14/05/14	Tue 20/05/14													
1227		0%	Promote other Third party systems - TBD	5 days	Wed 14/05/14	Tue 20/05/14													
1228		0%	Promote middleware/integration endpoints to live systems	5 days	Fri 23/05/14	Tue 27/05/14													
1229		0%	Cutover -"Go Live"	4 days	Fri 23/05/14	Mon 26/05/14													
1230		0%	Deliver CSS data extract	1 day	Fri 23/05/14	Fri 23/05/14													
1231		0%	Execute cutover activities	4 days	Fri 23/05/14	Mon 26/05/14													
1232		0%	Legacy Environment Shut Down	1 day	Mon 26/05/14	Mon 26/05/14													
1233		0%	Post Go Live -Incident and Issue Management	10 days	Wed 14/05/14	Sun 25/05/14													
1236		0%	Project Closure	9 days	Wed 09/07/14	Mon 21/07/14													



Project: National Grid -Meter to C
Date: Wed 30/10/13

Task

Project Summary

Split

External Tasks

Milestone

External Milestone

Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Deadline

Critical

Critical Split

Progress