



DRAFT PAC1 Project Schedule

ID	% Complete	Task Name	Resource Names	Duration	Start	Finish
1	49%	PAC1 Project Schedule		110 wks	Wed 5/1/13	Tue 6/30/15
2	77%	Project Launch & Administration		90.8 wks	Wed 5/1/13	Fri 2/13/15
3	100%	Contract Award	OSI/PAC	1 day	Wed 5/1/13	Wed 5/1/13
4	100%	Kick-off Meetings		2 wks	Wed 6/5/13	Tue 6/18/13
8						
9	66%	Documentation		86 wks	Wed 6/5/13	Fri 2/13/15
10	100%	Submit Draft Training LOD (OSI)	OSI	0 days	Wed 6/5/13	Wed 6/5/13
11	100%	Complete Training LOD and Submit to OSI (PacifiCorp)	PAC	15 days	Wed 6/5/13	Tue 6/25/13
12	100%	Submit Project Plan (OSI)	OSI	18 days	Mon 6/10/13	Wed 7/3/13
13	50%	Submit Documentation Plan (OSI)	OSI	18 days	Mon 6/10/13	Wed 7/3/13
14	100%	Submit Initial Standard Documentation Set (Functional Designs, User Guides, Config Guides) (OSI)	OSI	3 wks	Mon 6/10/13	Fri 6/28/13
15	100%	Submit System Design Document (OSI)	OSI	3 days	Fri 11/1/13	Tue 11/5/13
16	100%	Review and Confirm Design Document (PacifiCorp)	PAC	16 days	Wed 11/6/13	Wed 11/27/13
17	100%	Milestone #2A - Design Complete and PDS and Terminal Server Hardware Delivered to Contractor		0 days	Wed 11/27/13	Wed 11/27/13
18	0%	Submit SCADA/EMS Site Preparation Plan (OSI)	OSI	0 days	Wed 7/30/14	Wed 7/30/14
19	0%	Submit OSI FAT Plan and Test Procedures (OSI)	OSI	0 days	Tue 7/1/14	Tue 7/1/14
20	0%	Review and Confirm FAT Plan and Procedures (PacifiCorp)	PAC	15 days	Wed 7/2/14	Wed 7/23/14
21	0%	Submit OSI SAT Plan and Procedures (OSI)	OSI	0 days	Mon 10/27/14	Mon 10/27/14
22	0%	Review and Confirm SAT Plan and Procedures (PacifiCorp)	PAC	15 days	Tue 10/28/14	Mon 11/17/14
23	0%	Submit Final Standard Documentation Set (Functional Designs, User Guides, Config Guides) (OSI)	OSI	0 days	Fri 2/13/15	Fri 2/13/15
24	0%	Submit As-Built and OEM Documentation (OSI)	OSI	0 days	Fri 2/13/15	Fri 2/13/15
25						
26	100%	OSI University Training		15 wks	Mon 7/8/13	Mon 10/21/13
47						
48	52%	Design, Build and Testing		69.4 wks	Mon 6/10/13	Mon 10/20/14
49	100%	System Design		9.6 wks	Tue 6/18/13	Fri 8/23/13
65	47%	Software Design and Development		46.4 wks	Wed 8/21/13	Mon 7/21/14
66	79%	Protocols Design and Development		32.8 wks	Mon 10/7/13	Thu 5/29/14
67	92%	DNP 3.0 (No Protocol Development Planned)		22 wks	Mon 12/9/13	Wed 5/14/14
68	100%	Perform Functional Testing (PacifiCorp)		37 days	Mon 12/9/13	Fri 1/31/14
69	87%	Perform Field Point-to-Point Testing (PacifiCorp)		58 days	Mon 2/24/14	Wed 5/14/14
70	72%	SC 1801 v52		31.4 wks	Mon 10/7/13	Mon 5/19/14
71	100%	Software Coding, Internal Testing and Release Preparation	OSI	17 days	Mon 10/7/13	Tue 10/29/13
72	100%	Install and Configure Release on PDS (PacifiCorp)	OSI/PAC	2 days	Wed 10/30/13	Thu 10/31/13
73	100%	Perform Functional Testing (PacifiCorp)	PAC	15 days	Mon 12/9/13	Tue 12/31/13
74	100%	Issue Resolution and Release Preparation	OSI	6 days	Thu 1/2/14	Thu 1/9/14
75	100%	Install and Configure Release on PDS (PacifiCorp)	OSI/PAC	2 days	Fri 1/10/14	Mon 1/13/14
76	50%	Perform Field Point-to-Point Testing (PacifiCorp)	PAC	33 days	Wed 3/26/14	Fri 5/9/14
77	0%	Issue Resolution and Release Preparation	OSI	6 days	Mon 5/12/14	Mon 5/19/14



DRAFT PAC1 Project Schedule

ID	% Complete	Task Name	Resource Names	Duration	Start	Finish
78	76%	TeleGyr 6500		30.4 wks	Mon 10/7/13	Mon 5/12/14
79	100%	Software Coding, Internal Testing and Release Preparation	OSI	15 days	Mon 10/7/13	Fri 10/25/13
80	100%	Install and Configure Release on PDS (PacifiCorp)	OSI/PAC	2 days	Mon 10/28/13	Tue 10/29/13
81	100%	Perform Functional Testing (PacifiCorp)	PAC	10 days	Mon 1/6/14	Fri 1/17/14
82	100%	Issue Resolution and Release Preparation	OSI	6 days	Mon 1/20/14	Mon 1/27/14
83	100%	Install and Configure Release on PDS (PacifiCorp)	OSI/PAC	2 days	Tue 1/28/14	Wed 1/29/14
84	67%	Perform Field Point-to-Point Testing (PacifiCorp)	PAC	45 days	Mon 3/3/14	Fri 5/2/14
85	0%	Issue Resolution and Release Preparation	OSI	6 days	Mon 5/5/14	Mon 5/12/14
86	70%	TeleGyr 8979		27.6 wks	Mon 10/28/13	Tue 5/13/14
87	100%	Software Coding, Internal Testing and Release Preparation	OSI	11 days	Mon 10/28/13	Mon 11/11/13
88	100%	Install and Configure Release on PDS (PacifiCorp)	OSI/PAC	2 days	Tue 11/12/13	Wed 11/13/13
89	100%	Perform Functional Testing (PacifiCorp)	PAC	10 days	Mon 1/20/14	Fri 1/31/14
90	100%	Issue Resolution and Release Preparation	OSI	11 days	Mon 2/3/14	Mon 2/17/14
91	100%	Install and Configure Release on PDS (PacifiCorp)	OSI/PAC	2 days	Tue 2/18/14	Wed 2/19/14
92	56%	Perform Field Point-to-Point Testing (PacifiCorp)	PAC	24 days	Wed 3/26/14	Mon 4/28/14
93	0%	Issue Resolution and Release Preparation	OSI	11 days	Tue 4/29/14	Tue 5/13/14
94	65%	PERT 26/31		28.2 wks	Mon 11/4/13	Fri 5/23/14
95	100%	Software Coding, Internal Testing and Release Preparation	OSI	26 days	Mon 11/4/13	Tue 12/10/13
96	100%	Install and Configure Release on PDS (PacifiCorp)	OSI/PAC	2 days	Wed 12/11/13	Thu 12/12/13
97	100%	Perform Functional Testing (PacifiCorp)	PAC	10 days	Mon 1/6/14	Fri 1/17/14
98	100%	Issue Resolution and Release Preparation	OSI	11 days	Mon 1/20/14	Mon 2/3/14
99	100%	Install and Configure Release on PDS (PacifiCorp)	OSI/PAC	2 days	Tue 2/4/14	Wed 2/5/14
100	29%	Perform Field Point-to-Point Testing (PacifiCorp)	PAC	29 days	Mon 3/31/14	Thu 5/8/14
101	0%	Issue Resolution and Release Preparation	OSI	11 days	Fri 5/9/14	Fri 5/23/14
102	88%	Granger 8000		25.8 wks	Mon 11/25/13	Thu 5/29/14
103	100%	Software Coding, Internal Testing and Release Preparation	OSI	66 days	Mon 11/25/13	Fri 2/28/14
104	100%	Install and Configure Release on PDS (PacifiCorp)	OSI/PAC	2 days	Mon 3/3/14	Tue 3/4/14
105	100%	Perform Functional Testing (PacifiCorp)	PAC	10 days	Wed 3/5/14	Tue 3/18/14
106	100%	Issue Resolution and Release Preparation	OSI	11 days	Wed 3/19/14	Wed 4/2/14
107	100%	Install and Configure Release on PDS (PacifiCorp)	OSI/PAC	2 days	Thu 4/3/14	Fri 4/4/14
108	0%	Perform Field Point-to-Point Testing (PacifiCorp)	PAC	1 day	Tue 5/13/14	Tue 5/13/14
109	0%	Issue Resolution and Release Preparation	OSI	11 days	Wed 5/14/14	Thu 5/29/14
110	88%	TRW 9550		28.6 wks	Mon 11/4/13	Wed 5/28/14
111	100%	Software Coding, Internal Testing and Release Preparation	OSI	59 days	Mon 11/4/13	Wed 1/29/14
112	100%	Install and Configure Release on PDS (PacifiCorp)	OSI/PAC	2 days	Thu 1/30/14	Fri 1/31/14
113	100%	Perform Functional Testing (PacifiCorp)	PAC	10 days	Mon 2/3/14	Fri 2/14/14
114	100%	Issue Resolution and Release Preparation	OSI	11 days	Mon 2/17/14	Mon 3/3/14
115	100%	Install and Configure Release on PDS (PacifiCorp)	OSI/PAC	2 days	Tue 3/4/14	Wed 3/5/14
116	0%	Perform Field Point-to-Point Testing (PacifiCorp)	PAC	1 day	Mon 5/12/14	Mon 5/12/14
117	0%	Issue Resolution and Release Preparation	OSI	11 days	Tue 5/13/14	Wed 5/28/14
118	57%	Custom Software Design and Development (OSI)	OSI	46.4 wks	Wed 8/21/13	Mon 7/21/14



DRAFT PAC1 Project Schedule

ID	% Complete	Task Name	Resource Names	Duration	Start	Finish
119	91%	Operating Reserve Alert (ORA)		35.4 wks	Wed 8/21/13	Thu 5/1/14
120	100%	Demo Existing Functionality @ Portland	OSI/PAC	1 day	Wed 8/21/13	Wed 8/21/13
121	100%	Build custom product including displays and calculations	OSI	46 days	Thu 8/22/13	Fri 10/25/13
122	100%	Demo Displays and Schema via WebEx	OSI/PAC	1 day	Fri 12/6/13	Fri 12/6/13
123	0%	Load Displays and Schema to PDS (PacifiCorp)	OSI/PAC	1 day	Fri 4/25/14	Fri 4/25/14
124	0%	Review Displays and Schema and Supply Feedback to OSI (PacifiCorp)	PAC	4 days	Mon 4/28/14	Thu 5/1/14
125	93%	Transmission Monitor and Control (TMC)		46.2 wks	Wed 8/21/13	Fri 7/18/14
126	100%	Demo Existing Functionality @ Portland	OSI/PAC	1 day	Wed 8/21/13	Wed 8/21/13
127	100%	Build custom product including displays and calculations	OSI	61 days	Thu 8/22/13	Fri 11/15/13
128	100%	Demo Displays and Schema via WebEx	OSI/PAC	1 day	Thu 12/5/13	Thu 12/5/13
129	0%	Load Displays and Schema to PDS (PacifiCorp)	OSI/PAC	1 day	Mon 7/14/14	Mon 7/14/14
130	0%	Review Displays and Schema and Supply Feedback to OSI (PacifiCorp)	PAC	4 days	Tue 7/15/14	Fri 7/18/14
131	68%	Distribution Capacitor Control (DCC)		35.4 wks	Thu 9/12/13	Thu 5/22/14
132	100%	Demo Existing Functionality via WebEx	OSI/PAC	1 day	Thu 9/12/13	Thu 9/12/13
133	70%	Add features to OpenSVC product	OSI	171 days	Fri 9/13/13	Thu 5/15/14
134	0%	Demo Displays and Schema via WebEx	OSI/PAC	1 day	Fri 5/16/14	Fri 5/16/14
135	0%	Load Displays and Schema to PDS (PacifiCorp)	OSI/PAC	1 day	Mon 5/19/14	Mon 5/19/14
136	0%	Review Displays and Schema and Supply Feedback to OSI (PacifiCorp)	PAC	4 days	Mon 5/19/14	Thu 5/22/14
137	75%	Critical Path Nomograms (CPN)		45.4 wks	Wed 8/21/13	Mon 7/14/14
138	100%	Demo Existing Functionality @ Portland	OSI/PAC	1 day	Wed 8/21/13	Wed 8/21/13
139	77%	Add features to OpenNET product	OSI	186 days	Thu 8/22/13	Thu 5/15/14
140	0%	Demo Displays and Schema via WebEx	OSI/PAC	1 day	Fri 5/16/14	Fri 5/16/14
141	0%	Load Displays and Schema to PDS (PacifiCorp)	OSI/PAC	1 day	Mon 7/14/14	Mon 7/14/14
142	0%	Review Displays and Schema and Supply Feedback to OSI (PacifiCorp)	PAC	4 days	Mon 5/19/14	Thu 5/22/14
143	31%	Automatic Entry Alarms (AEA) - C&B		32.4 wks	Wed 10/9/13	Thu 5/29/14
144	100%	Demo Existing Functionality via WebEx	OSI/PAC	1 day	Wed 10/9/13	Wed 10/9/13
145	32%	Build custom displays and calculations	OSI	153 days	Thu 10/10/13	Fri 5/16/14
146	0%	Demo Displays and Schema via WebEx	OSI/PAC	1 day	Mon 5/19/14	Mon 5/19/14
147	0%	Load Displays and Schema to PDS (PacifiCorp)	OSI/PAC	2 days	Tue 5/20/14	Wed 5/21/14
148	0%	Review Displays and Schema and Supply Feedback to OSI (PacifiCorp)	PAC	5 days	Thu 5/22/14	Thu 5/29/14
149	92%	Phase Shifter Control (PST)		27.6 wks	Fri 10/18/13	Mon 5/5/14
150	100%	Demo Existing Functionality via WebEx	OSI/PAC	1 day	Fri 10/18/13	Fri 10/18/13
151	100%	Build custom product including displays and calculations	OSI	78 days	Mon 10/21/13	Tue 2/11/14
152	100%	Demo Displays and Schema via WebEx	OSI/PAC	1 day	Wed 2/12/14	Wed 2/12/14
153	0%	Load Displays and Schema to PDS (PacifiCorp)	OSI/PAC	2 days	Fri 4/25/14	Mon 4/28/14
154	0%	Review Displays and Schema and Supply Feedback to OSI (PacifiCorp)	PAC	5 days	Tue 4/29/14	Mon 5/5/14
155	0%	Hydro Pulse Control (HPC) - C&B		8.2 wks	Fri 4/4/14	Mon 6/2/14
156	0%	Build custom displays and calculations	OSI	40 days	Fri 4/4/14	Fri 5/30/14
157	0%	Demo Existing Functionality via WebEx	OSI/PAC	1 day	Mon 6/2/14	Mon 6/2/14
158	88%	Reserve Monitor Auxiliary (RMA)		27.2 wks	Mon 10/21/13	Fri 5/2/14
159	100%	Demo Existing Functionality via WebEx	OSI/PAC	1 day	Thu 11/21/13	Thu 11/21/13



DRAFT PAC1 Project Schedule

ID	% Complete	Task Name	Resource Names	Duration	Start	Finish
160	100%	Build custom displays and calculations	OSI	101 days	Mon 10/21/13	Fri 3/14/14
161	100%	Demo Displays and Schema via WebEx	OSI/PAC	1 day	Mon 4/14/14	Mon 4/14/14
162	0%	Load Displays and Schema to PDS (PacifiCorp)	OSI/PAC	9 days	Tue 4/15/14	Fri 4/25/14
163	0%	Review Displays and Schema and Supply Feedback to OSI (PacifiCorp)	PAC	5 days	Mon 4/28/14	Fri 5/2/14
164	0%	Reactive Charges Alarm (RCA)		11.2 wks	Thu 5/1/14	Mon 7/21/14
165	0%	Build custom displays and calculations	OSI	55 days	Thu 5/1/14	Fri 7/18/14
166	0%	Demo Existing Functionality via WebEx	OSI/PAC	1 day	Mon 7/21/14	Mon 7/21/14
167	0%	VAR Reserves - C&B		8.2 wks	Fri 4/4/14	Mon 6/2/14
168	0%	Build custom displays and calculations	OSI	40 days	Fri 4/4/14	Fri 5/30/14
169	0%	Demo Existing Functionality via WebEx	OSI/PAC	1 day	Mon 6/2/14	Mon 6/2/14
170	0%	Capacitor Control Breaker Monitor (CCBMON) - C&B		8.2 wks	Fri 4/4/14	Mon 6/2/14
171	0%	Build custom displays and calculations	OSI	40 days	Fri 4/4/14	Fri 5/30/14
172	0%	Demo Existing Functionality via WebEx	OSI/PAC	1 day	Mon 6/2/14	Mon 6/2/14
173	0%	Reactive Device Control (RDC)		6.2 wks	Fri 4/4/14	Fri 5/16/14
174	0%	Add features to OpenSVC product	OSI	30 days	Fri 4/4/14	Thu 5/15/14
175	0%	Demo Existing Functionality via WebEx	OSI/PAC	1 day	Fri 5/16/14	Fri 5/16/14
176	8%	External Interfaces		16.4 wks	Mon 3/10/14	Wed 7/2/14
177	21%	OASIS		16.4 wks	Mon 3/10/14	Wed 7/2/14
178	100%	Supply Mapping and Sample Data (PacifiCorp)	PAC	5 days	Mon 3/10/14	Fri 3/14/14
179	100%	Define Requirements and Design (OSI/PacifiCorp)	OSI/PAC	15 days	Mon 3/17/14	Fri 4/4/14
180	0%	Design Review and Approval (OSI/PacifiCorp)	OSI/PAC	5 days	Mon 4/7/14	Fri 4/11/14
181	0%	Complete Software Development - If needed (OSI)	OSI	45 days	Mon 4/14/14	Mon 6/16/14
182	0%	Prepare PDS For Testing - Networking, External Entity Coordination, SW Release Installation, Configuration (OSI/PacifiCorp)	OSI/PAC	15 days	Tue 5/27/14	Mon 6/16/14
183	0%	PDS Testing with External Entity (OSI/PacifiCorp)	OSI/PAC	2 days	Tue 6/17/14	Wed 6/18/14
184	0%	Issue Resolution and PacifiCorp Acceptance (OSI/PacifiCorp)	OSI/PAC	10 days	Thu 6/19/14	Wed 7/2/14
185	6%	CAS/EAS		14.4 wks	Mon 3/10/14	Wed 6/18/14
186	100%	Supply Mapping and Sample Data (PacifiCorp)	PAC	5 days	Mon 3/10/14	Fri 3/14/14
187	0%	Finalize Design (OSI/PacifiCorp)	OSI/PAC	25 days	Mon 3/17/14	Fri 4/18/14
188	0%	Complete Software Development (OSI)	OSI	40 days	Mon 4/21/14	Mon 6/16/14
189	0%	Prepare PDS For Testing - Networking, External Entity Coordination, SW Release Installation, Configuration (OSI/PacifiCorp)	OSI/PAC	15 days	Tue 5/27/14	Mon 6/16/14
190	0%	PDS Testing with External Entity (OSI/PacifiCorp)	OSI/PAC	2 days	Tue 6/17/14	Wed 6/18/14
191	6%	RER Weather		14.4 wks	Mon 3/10/14	Wed 6/18/14
192	100%	Supply Mapping and Sample Data (PacifiCorp)	PAC	5 days	Mon 3/10/14	Fri 3/14/14
193	0%	Finalize Design (OSI/PacifiCorp)	OSI/PAC	25 days	Mon 3/17/14	Fri 4/18/14
194	0%	Complete Software Development (OSI)	OSI	40 days	Mon 4/21/14	Mon 6/16/14
195	0%	Prepare PDS For Testing - Networking, External Entity Coordination, SW Release Installation, Configuration (OSI/PacifiCorp)	OSI/PAC	15 days	Tue 5/27/14	Mon 6/16/14
196	0%	PDS Testing with External Entity (OSI/PacifiCorp)	OSI/PAC	2 days	Tue 6/17/14	Wed 6/18/14
197	6%	ENDUR		14.4 wks	Mon 3/10/14	Wed 6/18/14
198	100%	Supply Mapping and Sample Data (PacifiCorp)	PAC	5 days	Mon 3/10/14	Fri 3/14/14



DRAFT PAC1 Project Schedule

ID	% Complete	Task Name	Resource Names	Duration	Start	Finish
199	0%	Finalize Design (OSI/PacifiCorp)	OSI/PAC	25 days	Mon 3/17/14	Fri 4/18/14
200	0%	Complete Software Development (OSI)	OSI	40 days	Mon 4/21/14	Mon 6/16/14
201	0%	Prepare PDS For Testing - Networking, External Entity Coordination, SW Release Installation, Configuration (OSI/PacifiCorp)	OSI/PAC	15 days	Tue 5/27/14	Mon 6/16/14
202	0%	PDS Testing with External Entity (OSI/PacifiCorp)	OSI/PAC	2 days	Tue 6/17/14	Wed 6/18/14
203	6%	Yukon (TBD pending CCO)		14.4 wks	Mon 3/10/14	Wed 6/18/14
204	100%	Supply Mapping and Sample Data (PacifiCorp)	PAC	5 days	Mon 3/10/14	Fri 3/14/14
205	0%	Finalize Design (OSI/PacifiCorp)	OSI/PAC	25 days	Mon 3/17/14	Fri 4/18/14
206	0%	Complete Software Development (OSI)	OSI	40 days	Mon 4/21/14	Mon 6/16/14
207	0%	Prepare PDS For Testing - Networking, External Entity Coordination, SW Release Installation, Configuration (OSI/PacifiCorp)	OSI/PAC	15 days	Tue 5/27/14	Mon 6/16/14
208	0%	PDS Testing with External Entity (OSI/PacifiCorp)	OSI/PAC	2 days	Tue 6/17/14	Wed 6/18/14
209	6%	CAISO		14.4 wks	Mon 3/10/14	Wed 6/18/14
210	100%	Supply Mapping and Sample Data (PacifiCorp)	PAC	5 days	Mon 3/10/14	Fri 3/14/14
211	0%	Finalize Design (OSI/PacifiCorp)	OSI/PAC	25 days	Mon 3/17/14	Fri 4/18/14
212	0%	Complete Software Development (OSI)	OSI	40 days	Mon 4/21/14	Mon 6/16/14
213	0%	Prepare PDS For Testing - Networking, External Entity Coordination, SW Release Installation, Configuration (OSI/PacifiCorp)	OSI/PAC	15 days	Tue 5/27/14	Mon 6/16/14
214	0%	PDS Testing with External Entity (OSI/PacifiCorp)	OSI/PAC	2 days	Tue 6/17/14	Wed 6/18/14
215	6%	CIM to XML		14.4 wks	Mon 3/10/14	Wed 6/18/14
216	100%	Supply Mapping and Sample Data (PacifiCorp)	PAC	5 days	Mon 3/10/14	Fri 3/14/14
217	0%	Finalize Design (OSI/PacifiCorp)	OSI/PAC	25 days	Mon 3/17/14	Fri 4/18/14
218	0%	Complete Software Development (OSI)	OSI	40 days	Mon 4/21/14	Mon 6/16/14
219	0%	Prepare PDS For Testing - Networking, External Entity Coordination, SW Release Installation, Configuration (OSI/PacifiCorp)	OSI/PAC	15 days	Tue 5/27/14	Mon 6/16/14
220	0%	PDS Testing with External Entity (OSI/PacifiCorp)	OSI/PAC	2 days	Tue 6/17/14	Wed 6/18/14
221	6%	ICCP		14.4 wks	Mon 3/10/14	Wed 6/18/14
222	100%	Supply Mapping and Sample Data (PacifiCorp)	PAC	5 days	Mon 3/10/14	Fri 3/14/14
223	0%	Finalize Design (OSI/PacifiCorp)	OSI/PAC	25 days	Mon 3/17/14	Fri 4/18/14
224	0%	Configure Production System (OSI)	OSI	40 days	Mon 4/21/14	Mon 6/16/14
225	0%	Prepare PDS For Testing - Networking, External Entity Coordination, SW Release Installation, Configuration (OSI/PacifiCorp)	OSI/PAC	15 days	Tue 5/27/14	Mon 6/16/14
226	0%	PDS Testing with External Entity (OSI/PacifiCorp)	OSI/PAC	2 days	Tue 6/17/14	Wed 6/18/14
227	6%	OSIsoft PI		13.4 wks	Mon 3/10/14	Wed 6/11/14
228	100%	Supply Mapping and Sample Data (PacifiCorp)	PAC	5 days	Mon 3/10/14	Fri 3/14/14
229	0%	Finalize Design (OSI/PacifiCorp)	OSI/PAC	30 days	Mon 3/17/14	Fri 4/25/14
230	0%	Complete Software Development (OSI)	OSI	25 days	Mon 5/5/14	Mon 6/9/14
231	0%	Prepare PDS For Testing - Networking, External Entity Coordination, SW Release Installation, Configuration (OSI/PacifiCorp)	OSI/PAC	15 days	Mon 5/19/14	Mon 6/9/14
232	0%	PDS Testing with External Entity (OSI/PacifiCorp)	OSI/PAC	2 days	Tue 6/10/14	Wed 6/11/14
233						
234	100%	Database and Displays Conversion		25 wks	Mon 6/10/13	Wed 12/4/13
249						



DRAFT PAC1 Project Schedule

ID	% Complete	Task Name	Resource Names	Duration	Start	Finish
250	100%	Program Development System (PDS) Build and Testing		18.2 wks	Fri 7/5/13	Mon 11/11/13
260						
261	48%	SCADA/EMS Build and Testing		58.6 wks	Mon 8/26/13	Mon 10/20/14
262	100%	Performance Testing		4.4 wks	Mon 12/2/13	Fri 1/3/14
265	72%	System Staging, Integration and Software Installation		39.4 wks	Mon 8/26/13	Wed 6/4/14
266	95%	Order SCADA/EMS Hardware (OSI)	OSI	2 days	Thu 1/16/14	Fri 1/17/14
267	100%	Order and Deliver Customer Furnished Hardware and 3rd Party Software to OSI (PacifiCorp)	PAC	40 days	Mon 8/26/13	Mon 10/21/13
268	95%	Receive SCADA/EMS Hardware (OSI)	OSI	15 days	Mon 1/20/14	Fri 2/7/14
269	100%	Milestone #2B - FAT Hardware Delivered to Contractor		0 days	Fri 2/7/14	Fri 2/7/14
270	100%	Stage and Cable SCADA/EMS and CFE Hardware (OSI)	OSI	5 days	Mon 2/10/14	Fri 2/14/14
271	100%	QG - Hardware Readiness Review & Issue Resolution (OSI)	OSI	1 day	Mon 2/17/14	Mon 2/17/14
272	100%	Operating System Installation, monarch Software Installation (OSI)	OSI	7 days	Tue 2/18/14	Wed 2/26/14
273	100%	QG - IT Readiness Review & Issue Resolution (OSI)	OSI	1 day	Thu 2/27/14	Thu 2/27/14
274	100%	Base Build Issue Resolution	OSI	6 days	Fri 2/28/14	Fri 3/7/14
275	100%	Cable Network, Configure Switches and Firewalls (PacifiCorp)	PAC	8 days	Wed 3/26/14	Fri 4/4/14
276	100%	Perform System Integration and Configuration (OSI)	OSI	20 days	Mon 3/10/14	Fri 4/4/14
277	5%	System Testing (OSI)	OSI	20 days	Mon 4/7/14	Fri 5/2/14
278	0%	Provide Exported Database and Displays Files (PacifiCorp)	PAC	1 day	Mon 5/5/14	Mon 5/5/14
279	0%	Perform Database and Displays Conversion - Pre-FAT/FAT Preparation (OSI)	OSI	5 days	Tue 5/6/14	Mon 5/12/14
280	0%	QG - System Quality Review (OSI)	OSI	2 days	Tue 5/13/14	Wed 5/14/14
281	0%	System Clean-up and Pre-FAT Preparation (OSI)	OSI	14 days	Thu 5/15/14	Wed 6/4/14
282	0%	Pre-Factory Acceptance Testing (Pre-FAT)		7.8 wks	Thu 6/5/14	Wed 7/30/14
283	0%	QG - Authorization to Start Pre-FAT (OSI)	OSI	2 days	Thu 6/5/14	Fri 6/6/14
284	0%	Perform Pre-FAT (OSI)	OSI	15 days	Mon 6/9/14	Fri 6/27/14
285	0%	Pre-FAT cleanup (OSI)	OSI	22 days	Mon 6/30/14	Wed 7/30/14
286	0%	Factory Acceptance Testing (FAT)		11.4 wks	Thu 7/31/14	Mon 10/20/14
287	0%	QG - Authorization to Start FAT (OSI)	OSI	2 days	Thu 7/31/14	Fri 8/1/14
288	0%	Perform FAT (PacifiCorp with OSI Assistance)	OSI/PAC	20 days	Mon 8/4/14	Fri 8/29/14
289	0%	Milestone #3 - FAT Completion (15%)		0 days	Fri 8/29/14	Fri 8/29/14
290	0%	FAT Issue Resolution (OSI)	OSI	20 days	Tue 9/2/14	Mon 9/29/14
291	0%	QG - Authorization to Ship (OSI)	OSI	2 days	Tue 9/30/14	Wed 10/1/14
292	0%	Pack and Ship System (OSI)	OSI	7 days	Thu 10/2/14	Fri 10/10/14
293	0%	Delivery of System (OSI)	OSI	6 days	Mon 10/13/14	Mon 10/20/14
294						
295	18%	Site Installation, Testing and Cutover		100.8 wks	Fri 7/5/13	Tue 6/30/15
296	65%	Program Development System (PDS)		46.8 wks	Fri 7/5/13	Thu 6/5/14
297	100%	Complete PDS Site Preparation (PacifiCorp)	PAC	10 wks	Fri 7/5/13	Fri 9/13/13
298	100%	PDS Installation - Portland (OSI/PacifiCorp)	OSI/PAC	1 day	Tue 9/24/13	Tue 9/24/13
299	100%	PDS Installation - Salt Lake (OSI/PacifiCorp)	OSI/PAC	1 day	Thu 9/26/13	Thu 9/26/13
300	100%	Terminal Server Installation - Portland (OSI/PacifiCorp)	OSI/PAC	1 day	Fri 12/13/13	Fri 12/13/13
301	100%	Terminal Server Installation - Salt Lake (OSI/PacifiCorp)	OSI/PAC	1 day	Fri 12/13/13	Fri 12/13/13



DRAFT PAC1 Project Schedule

ID	% Complete	Task Name	Resource Names	Duration	Start	Finish
302	100%	SCADA Data Engineering Workshop @ Portland (OSI/PacifiCorp)	OSI/PAC	5 days	Mon 9/30/13	Fri 10/4/13
303	100%	AGC & OpenNET Data Engineering Workshop @ Portland (OSI/PacifiCorp)	OSI/PAC	4 days	Mon 10/7/13	Thu 10/10/13
304	44%	Perform Point-to-Point Checkout using PDS (PacifiCorp)	PAC	11.6 wks	Mon 2/24/14	Wed 5/14/14
305	0%	Milestone #6 - Point-to-point Testing Complete (15%)		0 days	Wed 5/14/14	Wed 5/14/14
306	0%	Build Reports (PacifiCorp)	PAC	3 wks	Thu 5/15/14	Thu 6/5/14
307	0%	SCADA/EMS Installation & Configuration		20.2 wks	Thu 7/31/14	Mon 12/22/14
308	0%	Complete SCADA/EMS Site Preparation (PacifiCorp)	PAC	11 wks	Thu 7/31/14	Thu 10/16/14
309	0%	Inventory and Move Hardware to Installation Locations (PacifiCorp)	PAC	5 days	Tue 10/21/14	Mon 10/27/14
310	0%	Perform SCADA/EMS Installation - Portland (OSI/PacifiCorp)	OSI/PAC	5 days	Tue 10/28/14	Mon 11/3/14
311	0%	Complete Network Installation and Configuration - Portland (PacifiCorp)	PAC	5 days	Tue 11/4/14	Mon 11/10/14
312	0%	Perform SCADA/EMS Installation - Salt Lake (OSI/PacifiCorp)	OSI/PAC	5 days	Tue 11/4/14	Mon 11/10/14
313	0%	Complete Network Installation and Configuration - Salt Lake (PacifiCorp)	PAC	5 days	Tue 11/11/14	Mon 11/17/14
314	0%	Finish Workstation Imaging System Build (PacifiCorp)	PAC	5 days	Tue 11/11/14	Mon 11/17/14
315	0%	Provide Exported Database and Displays Files (PacifiCorp)	PAC	5 days	Tue 11/4/14	Mon 11/10/14
316	0%	Perform Database and Displays Conversion - SAT Preparation (OSI)	OSI	5 days	Tue 11/11/14	Mon 11/17/14
317	0%	Perform Installation and Configuration of 3rd Party Software (PacifiCorp)	PAC	9 days	Tue 11/18/14	Mon 12/1/14
318	0%	Perform Site Configuration and Startup Activities (OSI/PacifiCorp)	OSI/PAC	9 days	Tue 11/18/14	Mon 12/1/14
319	0%	Perform Initial OpenNET Tuning and Training (OSI/PacifiCorp)	OSI/PAC	5 days	Tue 12/2/14	Mon 12/8/14
320	0%	Complete OpenNET Tuning (PacifiCorp)	PAC	10 days	Tue 12/9/14	Mon 12/22/14
321	0%	Perform Initial OpenAGC Tuning and Training (OSI/PacifiCorp)	OSI/PAC	5 days	Tue 12/9/14	Mon 12/15/14
322	0%	Complete OpenAGC Tuning (PacifiCorp)	PAC	5 days	Tue 12/16/14	Mon 12/22/14
323	0%	Milestone #7- Advanced Applications, Tuning and Custom Functions Complete (10%)		0 days	Mon 12/22/14	Mon 12/22/14
324	0%	Site Acceptance Testing (SAT)		10.2 wks	Tue 12/23/14	Fri 3/6/15
325	0%	QG- SAT Authorization (OSI)		5 days	Tue 12/23/14	Wed 12/31/14
326	0%	Perform SAT (PacifiCorp with OSI Assistance)	OSI/PAC	15 days	Mon 1/19/15	Fri 2/6/15
327	0%	Milestone #8 - SAT Completion (10%)		0 days	Fri 2/6/15	Fri 2/6/15
328	0%	SAT Cleanup Activities (OSI/PacifiCorp)	OSI/PAC	20 days	Mon 2/9/15	Fri 3/6/15
329	0%	System Cutover		7 wks	Mon 2/23/15	Fri 4/10/15
330	0%	Provide Exported Database and Displays Files (PacifiCorp)	PAC	5 days	Mon 2/23/15	Fri 2/27/15
331	0%	Ranger Database and Display Freeze (PacifiCorp)	PAC	1 day	Fri 2/27/15	Fri 2/27/15
332	0%	Perform Database and Displays Conversion - Cutover Preparation (OSI)	OSI	5 days	Mon 3/2/15	Fri 3/6/15
333	0%	Cutover Preparation (OSI/PacifiCorp)	OSI/PAC	15 days	Mon 3/9/15	Fri 3/27/15
334	0%	Operator Training (OSI/PacifiCorp)	OSI/PAC	5 days	Mon 3/30/15	Fri 4/3/15
335	0%	QG - Cutover Authorization (OSI)	OSI	5 days	Mon 3/30/15	Fri 4/3/15
336	0%	Cutover (OSI/PacifiCorp)	OSI/PAC	5 days	Mon 4/6/15	Fri 4/10/15
337	0%	Milestone #9 - Substantial Completion (10%)		0 days	Fri 4/10/15	Fri 4/10/15
338	0%	Availability Test		5.83 wks	Fri 4/10/15	Fri 5/22/15
339	0%	System Availability Test (1,000 elapsed hours) (PacifiCorp)	PAC	1000 ehrs	Fri 4/10/15	Fri 5/22/15
340	0%	Start of Software Support & Warranty		0 wks	Fri 5/22/15	Fri 5/22/15
341	0%	Milestone #10 - Final Completion (10%)		0 days	Fri 5/22/15	Fri 5/22/15
342	0%	Project Completion - Guaranteed Date		0 wks	Tue 6/30/15	Tue 6/30/15



DRAFT PAC1 Project Schedule

ID	% Complete	Task Name	Resource Names	Duration	Start	Finish
343						
344						
345	0%	PacifiCorp Construction Project Conflicts		21.2 wks	Fri 1/30/15	Tue 6/30/15
346	0%	Fry Sub Install 115kV Cap Banks TPL2		0 wks	Fri 1/30/15	Fri 1/30/15
347	0%	Pomona Heights Sub add 115-12.47kV Capacity		0 wks	Fri 1/30/15	Fri 1/30/15
348	0%	Three mile Canyon Farms HP increase		0 wks	Mon 3/16/15	Mon 3/16/15
349	0%	Union Gap Substation add 230-115kV Capacity		0 wks	Mon 3/16/15	Mon 3/16/15
350	0%	Carbon Decommissioning		0 wks	Wed 4/15/15	Wed 4/15/15
351	0%	Lehi Highland substation and line rebuild (customer)		0 wks	Fri 5/1/15	Fri 5/1/15
352	0%	Olene Gap Geothermal 10MW power project		0 wks	Mon 6/1/15	Mon 6/1/15
353	0%	Whetstone 230-115kV Substation		0 wks	Mon 6/1/15	Mon 6/1/15
354	0%	Energy Gateway: Sigurd to Red Butte		0 wks	Tue 6/30/15	Tue 6/30/15