
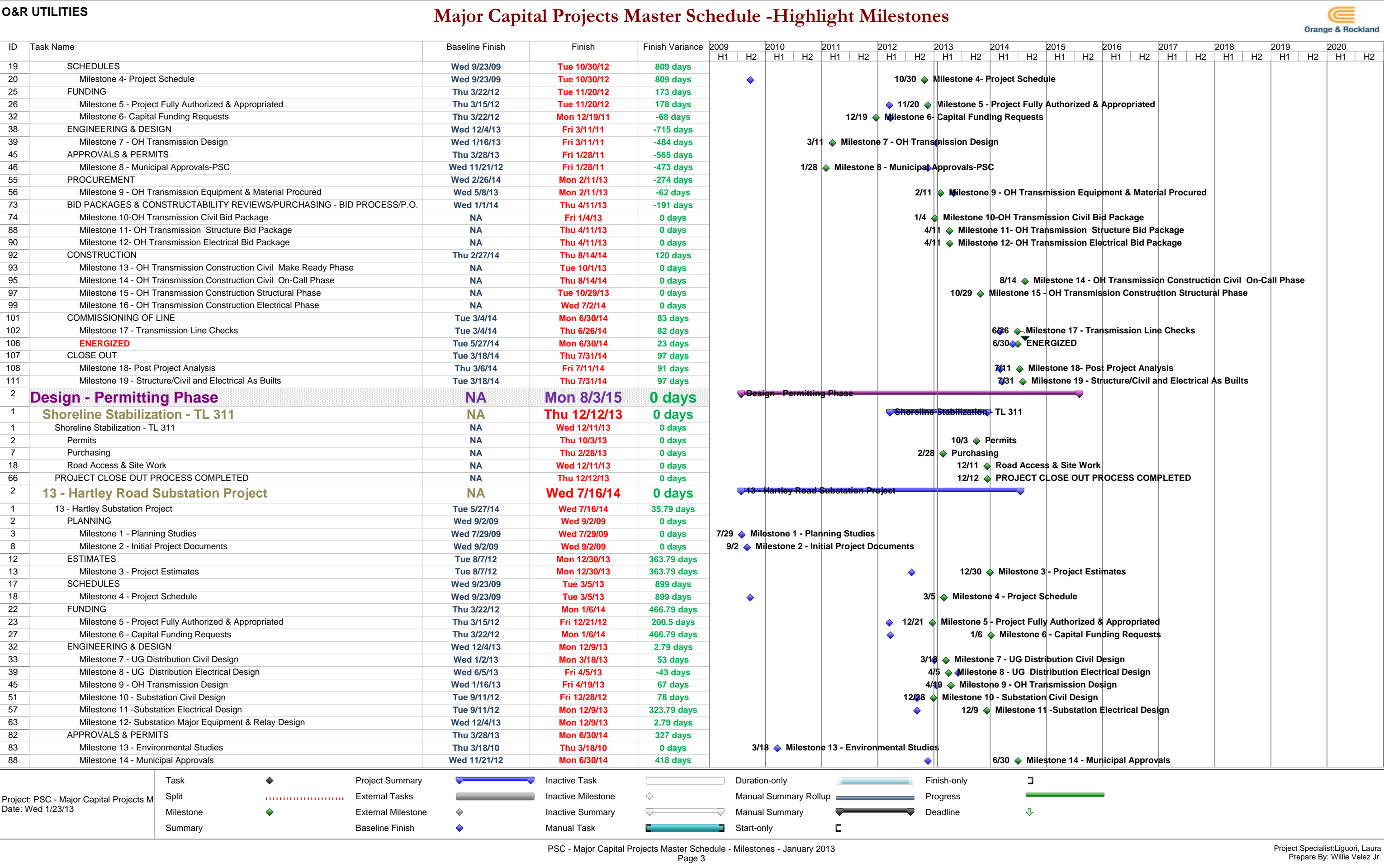


O&R UTILITIES				Major Capital Projects Master Schedule -Highlight Milestones																									
				<div><div></div><div>Orange &amp; Rockland</div></div>																									
ID	Task Name	Baseline Finish	Finish	Finish Variance	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020													
					H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2													
1	Construction Phase	NA	Thu 8/14/14	0 days																									
1	345kV TRANSMISSION LINE 67-68 OH BY-PASS PROJECT	NA	Wed 6/13/12	0 days																									
1	345kV TRANSMISSION LINE 67-68 OH BY-PASS PROJECT	Tue 10/29/13	Wed 6/13/12	-359 days																									
2	PLANNING	Fri 5/4/12	Thu 11/17/11	-121 days																									
6	PROJECT PLANNING COMPLETED	NA	Tue 11/15/11	0 days																									
7	ESTIMATES	Fri 2/24/12	Mon 11/21/11	-69 days																									
12	PROJECT ESTIMATESCOMPLETED	Fri 2/24/12	Wed 11/16/11	-72 days																									
13	SCHEDULES	Wed 1/4/12	Wed 11/23/11	-30 days																									
19	PROJECT SCHEDULES COMPLETED	Wed 1/4/12	Wed 11/23/11	-30 days																									
20	FUNDING	Fri 2/10/12	Thu 3/15/12	24 days																									
25	PROJECT FUNDING SECURED	NA	Thu 3/15/12	0 days																									
26	ENGINEERING & DESIGN	Mon 6/3/13	Fri 3/16/12	-316 days																									
41	PROJECT ENGINEERING & DESIGN COMPLETED	NA	Fri 3/16/12	0 days																									
42	PROCUREMENT	Fri 2/8/13	Fri 4/6/12	-220 days																									
51	PROJECT PROCUREMENT COMPLETED	NA	Fri 3/30/12	0 days																									
52	CONSTRUCTABILITY REVIEWS	Fri 1/6/12	Mon 3/19/12	51 days																									
57	PROJECT CONSTRUCTABILITY REVIEWS COMPLETED	NA	Mon 3/19/12	0 days																									
58	PURCHASING - BID PROCESS	Mon 4/15/13	Fri 4/6/12	-266 days																									
110	PROJECT PURCHASE ORDERS COMPLETED	NA	Tue 1/3/12	0 days																									
111	OUTAGES	Fri 1/13/12	Mon 11/28/11	-34 days																									
116	PROJECT OUTAGE SCHEDULES COMPLETED	NA	Mon 11/28/11	0 days																									
117	CONSTRUCTION	Tue 10/29/13	Mon 5/28/12	-371 days																									
130	PROJECT CONSTRUCTION COMPLETED	NA	Mon 5/28/12	0 days																									
131	COMMISSIONING OF BYPASS	Thu 3/15/12	Wed 5/30/12	54 days																									
136	ENERGIZED	NA	Wed 5/30/12	0 days																									
137	CLOSE OUT	Thu 4/26/12	Wed 6/13/12	34 days																									
145	PROJECT CLOSE OUT COMPLETED	NA	Wed 6/13/12	0 days																									
146	PROJECT COMPLETED	NA	Wed 6/13/12	0 days																									
2	Snake Hill Substation Project	NA	Fri 2/15/13	0 days																									
1	Snake Hill Substation OH Transmission Tap D374BA 10-2481	Mon 11/14/11	Fri 2/15/13	362 days																									
72	OH Transmission Preliminary Design Completed	Mon 6/14/10	Mon 6/14/10	0 days																									
73	OH Transmission Final Design Completed	Wed 12/15/10	Wed 12/22/10	5 days																									
74	OH Transmission Long Lead Items Ordered	Thu 12/30/10	Mon 2/8/10	-233 days																									
75	Submit Requisition for OH Transmission Construction	Thu 1/27/11	Mon 4/5/10	-213 days																									
76	P.O. Issued For OH Transmission Construction	Fri 4/29/11	Wed 5/9/12	289 days																									
77	Temporary Tap Work for Energizing Station	NA	Tue 7/24/12	0 days																									
78	Substation Energized with Temporary Tap	NA	Tue 7/24/12	0 days																									
79	FINAL OH Transmission Complete	Mon 11/14/11	Fri 2/15/13	362 days																									
80	Snake Hill Substation D374BX 10-7130	Fri 2/3/12	Wed 8/8/12	157 days																									
365	Substation Preliminary Design (Civil / Electrical) Completed	Mon 6/21/10	Mon 6/21/10	0 days																									
366	Submit Substation Town / Planning Board Site Plan Package	Tue 6/15/10	Tue 6/15/10	0 days																									
367	Substation Long Lead Items Ordered	Tue 3/9/10	Tue 3/9/10	0 days																									
368	Substation Final Design (Civil / Electrical) Completed	Wed 12/8/10	Tue 11/9/10	-21 days																									
369	Substation Town / Planning Board Resolution	Wed 10/13/10	Thu 11/25/10	31 days																									
370	Substation Building Permit Secured	Thu 12/30/10	Mon 4/11/11	72 days																									
371	Submit Requisition for Substation / UG Distribution Civil Construction	Thu 12/9/10	Tue 12/14/10	3 days																									
372	P.O. Issued For Substation / UG Distribution Civil Construction	Wed 3/9/11	Fri 3/25/11	12 days																									
373	E-HASP Approved For Substation / UG Distribution Civil Construction	Wed 3/16/11	Wed 4/20/11	25 days																									
374	Site Clearing / Grubbing Completed	Thu 2/24/11	Fri 5/27/11	66 days																									
375	Customer Rock Removal / Cuts Completed	Wed 2/2/11	Mon 8/8/11	132 days																									
376	Start Substation Civil Construction	Thu 3/17/11	Mon 8/1/11	97 days																									
377	Start Substation Electrical Construction	Mon 6/27/11	Mon 2/27/12	186 days																									
378	Start Substation Final Checkout	Fri 11/4/11	Mon 6/11/12	184 days																									
379	Substation Energized	Thu 1/5/12	Tue 7/24/12	171 days																									
380	Snake Hill Substation UG Dist. Exits D374CX 50-1812	Fri 11/4/11	Fri 7/13/12	212 days																									
Project: PSC - Major Capital Projects M Date: Wed 1/23/13		Task	◆	Project Summary	▬	Inactive Task	▬	Duration-only	▬	Finish-only	▬																		
		Split	.....	External Tasks	▬	Inactive Milestone	◆	Manual Summary Rollup	▬	Progress	▬																		
		Milestone	◆	External Milestone	◆	Inactive Summary	▬	Manual Summary	▬	Deadline	▬																		
		Summary		Baseline Finish	◆	Manual Task	▬	Start-only	▬																				
PSC - Major Capital Projects Master Schedule - Milestones - January 2013																													
Page 1																													
Project Specialist:Liguori, Laura Prepare By: Willie Velez Jr.																													

O&R UTILITIES				Major Capital Projects Master Schedule -Highlight Milestones																											
ID	Task Name	Baseline Finish	Finish	Finish Variance	2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		
					H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2			
452	UG Distribution Preliminary Design (Civil / Electrical) Completed	Tue 10/12/10	Mon 8/2/10	-52 days																											
453	UG Distribution Final Design (Civil / Electrical) Completed	Tue 1/25/11	Mon 1/31/11	4 days																											
454	UG Distribution Long Lead Items Ordered	Wed 1/12/11	Tue 2/1/11	14 days																											
455	Start UG Distribution Civil Construction	NA	Tue 7/5/11	0 days																											
456	Submit Requisition for UG Distribution Cable Installation P.O.	Wed 4/20/11	Tue 4/26/11	4 days																											
457	P.O. Issued For UG Distribution Cable Installation	Thu 7/28/11	Fri 12/9/11	98 days																											
458	E-HASP Approved For UG Distribution Cable Installation	Tue 8/9/11	Mon 12/19/11	98 days																											
459	Start UG Distribution Cable Installation	Wed 8/10/11	Tue 3/6/12	162 days																											
460	UG Distribution Complete	Fri 11/4/11	Fri 7/13/12	212 days																											
3	Template - Sugarloaf 69kV Breaker Replacement	NA	Fri 5/16/14	0 days																											
1	Sugarloaf 69kV Breaker Replacement	Tue 5/6/14	Tue 5/6/14	0 days																											
2	PLANNING	Mon 11/14/11	Mon 11/14/11	0 days																											
3	Milestone - Planning Studies Completed	Mon 9/19/11	Mon 9/19/11	0 days																											
7	Milestone - Initial Project Documents Completed	Mon 11/14/11	Mon 11/14/11	0 days																											
11	ESTIMATES	Wed 6/13/12	Wed 6/13/12	0 days																											
12	Milestone - Project Estimates Completed	Wed 6/13/12	Wed 6/13/12	0 days																											
17	SCHEDULES	Fri 10/19/12	Fri 10/19/12	0 days																											
18	Milestone - Project Schedule Completed	Fri 10/19/12	Fri 10/19/12	0 days																											
24	FUNDING	Tue 6/26/12	Tue 6/26/12	0 days																											
25	Milestone - Project Fully Authorized & Appropriated Completed	Tue 6/19/12	Tue 6/19/12	0 days																											
30	Milestone - Capital Funding Requests Completed	Tue 6/26/12	Tue 6/26/12	0 days																											
36	ENGINEERING & DESIGN	Sat 5/18/13	Sat 5/18/13	0 days																											
37	Milestone - Substation Civil Design Completed	Tue 5/8/12	Tue 5/8/12	0 days																											
43	Milestone - Relay Protection Completed	Sat 5/18/13	Sat 5/18/13	0 days																											
55	Milestone -Substation Electrical Design Completed	Tue 5/22/12	Tue 5/22/12	0 days																											
61	Milestone - Substation Major Equipment & Relay Design Completed	Wed 9/5/12	Wed 9/5/12	0 days																											
72	APPROVALS & PERMITS	Fri 9/7/12	Fri 9/7/12	0 days																											
73	Milestone - Building Permit Secured Completed	Fri 9/7/12	Fri 9/7/12	0 days																											
78	PROCUREMENT	Thu 1/31/13	Thu 1/31/13	0 days																											
79	Milestone - Substation Equipment & Material Completed	Thu 1/31/13	Thu 1/31/13	0 days																											
110	CONSTRUCTABILITY REVIEWS	Thu 4/25/13	Thu 4/25/13	0 days																											
111	Milestone - Substation Electrical Drawings Completed & Released to Substation Operations	Thu 4/25/13	Thu 4/25/13	0 days																											
117	PURCHASING - BID PROCESS	Wed 9/26/12	Wed 9/26/12	0 days																											
118	Milestone - Substation Civil Contractor PO Awarded Completed	Wed 9/26/12	Wed 9/26/12	0 days																											
140	EH&S	Fri 10/12/12	Fri 10/12/12	0 days																											
141	Milestone - Substation Civil EHASP Completed	Fri 10/12/12	Fri 10/12/12	0 days																											
146	OUTAGES	Sun 7/14/13	Sun 7/14/13	0 days																											
147	Milestone - All Project Outages Scheduled	Sun 7/14/13	Sun 7/14/13	0 days																											
162	CONSTRUCTION	Fri 5/2/14	Fri 5/2/14	0 days																											
163	Milestone - Substation Civil Construction Completed	Mon 4/22/13	Mon 4/22/13	0 days																											
182	Milestone - Substation Electrical Construction Completed	Fri 2/22/13	Fri 2/22/13	0 days																											
189	Milestone - Electrical Construction (O&R) Completed	Wed 4/23/14	Wed 4/23/14	0 days																											
350	Milestone - Station Checks Completed	Wed 4/30/14	Wed 4/30/14	0 days																											
369	Milestone - EHV/Substation Switching Construction Completed	Fri 5/2/14	Fri 5/2/14	0 days																											
373	CLOSE OUT	Tue 5/6/14	Tue 5/6/14	0 days																											
374	Milestone - Post Project Analysis Completed	Tue 5/6/14	Tue 5/6/14	0 days																											
377	Milestone - Civil and Electrical As Builts Completed	Thu 5/2/13	Thu 5/2/13	0 days																											
381	PROJECT COMPLETE	Fri 5/16/14	Fri 5/16/14	0 days																											
4	17 - 138kV Transmission Line 28 Project	NA	Thu 8/14/14	0 days																								</			





Major Capital Projects Master Schedule -Highlight Milestones



ID	Task Name	Baseline Finish	Finish	Finish Variance	2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
					H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
113	Milestone 15 - Building Permit Secured	Mon 3/4/13	Tue 3/5/13	1 day										3/5	◆ Milestone 15 - Building Permit Secured													
121	Milestone 16 - UG Road Opening Permits Secured	Mon 7/27/09	Fri 5/17/13	995 days		◆								5/17	◆ Milestone 16 - UG Road Opening Permits Secured													
124	PROCUREMENT	Wed 2/26/14	Mon 6/16/14	77.5 days																								
125	Milestone 17 - UG Distribution Equipment & Material Procured	Wed 10/23/13	Fri 2/28/14	92 days										2/28	◆ Milestone 17 - UG Distribution Equipment & Material Procured													
140	Milestone 18 - OH Transmission Equipment & Material Procured	Wed 5/8/13	Mon 6/16/14	287.5 days									◆	6/16	◆ Milestone 18 - OH Transmission Equipment & Material Procured													
149	Milestone 19- Substation Equipment & Material	NA	Mon 6/16/14	0 days										6/16	◆ Milestone 19- Substation Equipment & Material													
177	BID PACKAGES & CONSTRUCTABILITY REVIEWS	Wed 1/1/14	Mon 1/6/14	2.79 days																								
178	Milestone 20 - UG Distribution Civil Bid Package Completed & Released to Purchasing	Mon 1/28/13	Fri 4/19/13	59 days										4/19	◆ Milestone 20 - UG Distribution Civil Bid Package Completed & Released to Purchasing													
183	Milestone 21 - UG Distribution Electrical Bid Package Completed & Released to Purchasing	Mon 7/1/13	Wed 9/4/13	47 days										9/4	◆ Milestone 21 - UG Distribution Electrical Bid Package Completed & Released to Purchasing													
188	Milestone 22 - OH Transmission Bid Package Completed & Released to Purchasing	Mon 2/11/13	Wed 8/7/13	127 days										8/7	◆ Milestone 22 - OH Transmission Bid Package Completed & Released to Purchasing													
193	Milestone 23 -Civil Contractor PO - TREE/CLEARING (Soil erosion and sediment control ) Completed & Released to Purchasing	Fri 7/27/12	Wed 11/28/12	88 days										11/28	◆ Milestone 23 -Civil Contractor PO - TREE/CLEARING (Soil erosion and sediment control ) Completed & Released to Purchasing													
198	Milestone 24 -Substation Civil Contractor PO Completed & Released to Purchasing	NA	Wed 11/28/12	0 days										11/28	◆ Milestone 24 -Substation Civil Contractor PO Completed & Released to Purchasing													
202	Milestone 25 - Substation Electrical Drawings Completed & Released to Substation Operations	Wed 1/1/14	Mon 1/6/14	2.79 days										1/6	◆ Milestone 25 - Substation Electrical Drawings Completed & Released to Substation Operations													
207	PURCHASING - BID PROCESS	Fri 9/20/13	Tue 1/21/14	87 days																								
208	Milestone 26 - UG Distribution Civil PO Awarded	Fri 4/19/13	Fri 9/13/13	105 days										9/13	◆ Milestone 26 - UG Distribution Civil PO Awarded													
238	Milestone 27- UG Distribution Electrical PO Awarded	Fri 9/20/13	Tue 11/26/13	47 days										11/26	◆ Milestone 27- UG Distribution Electrical PO Awarded													
268	Milestone 28 - OH Transmission PO Awarded	Fri 7/26/13	Tue 1/21/14	127 days										1/21	◆ Milestone 28 - OH Transmission PO Awarded													
298	Milestone 29- Civil Contractor PO TREE/CLEARING (Soil erosion and sediment control ) Awarded	Fri 9/20/13	Tue 2/19/13	-153 days										2/19	◆ Milestone 29- Civil Contractor PO TREE/CLEARING (Soil erosion and sediment control ) Awarded													
329	Milestone 30 - Substation Civil Contractor PO Awarded	NA	Tue 2/19/13	0 days										2/19	◆ Milestone 30 - Substation Civil Contractor PO Awarded													
360	EH&S	Fri 8/30/13	Wed 2/19/14	123 days																								
361	Milestone 31 - All EHASPs Initially Reviewed & Approved by EH&S	Fri 8/30/13	Wed 2/19/14	123 days										2/19	◆ Milestone 31 - All EHASPs Initially Reviewed & Approved by EH&S													
383	OUTAGES	Fri 8/7/09	Fri 5/16/14	1245 days																								
384	Milestone 32 - All Project Outages Scheduled	Fri 8/7/09	Fri 5/16/14	1245 days		◆										5/16	◆ Milestone 32 - All Project Outages Scheduled											
389	CONSTRUCTION	Thu 2/27/14	Fri 6/27/14	85.79 days																								
390	Milestone 33 - UG Distribution Civil Construction	Tue 9/3/13	Tue 4/1/14	150 days										◆	4/1	◆ Milestone 33 - UG Distribution Civil Construction												
399	Milestone 34 - UG Distribution Electrical Construction	Thu 1/2/14	Mon 6/9/14	112 days										◆	6/9	◆ Milestone 34 - UG Distribution Electrical Construction												
410	Milestone 35 - OH Transmission Construction	Tue 12/31/13	Fri 6/27/14	127.79 days										◆	6/27	◆ Milestone 35 - OH Transmission Construction												
422	Milestone 36 - Substation Civil Construction	Fri 5/31/13	Tue 12/3/13	132 days										◆	12/3	◆ Milestone 36 - Substation Civil Construction												
445	Milestone 37 - Substation Electrical Construction	Thu 2/27/14	Fri 6/20/14	80.79 days												6/20	◆ Milestone 37 - Substation Electrical Construction											
497	COMMISSIONING OF STATION	Tue 3/4/14	Wed 6/25/14	80.79 days																								
498	Milestone 38 - Station Checks	Tue 3/4/14	Wed 6/25/14	80.79 days												6/25	◆ Milestone 38 - Station Checks											
503	ENERGIZED	Tue 5/27/14	Wed 6/25/14	20.79 days												6/25	◆ ENERGIZED											
504	CLOSE OUT	Tue 3/18/14	Wed 7/16/14	85.79 days																								
505	Milestone 39 - Post Project Analysis	Thu 3/6/14	Wed 7/9/14	88.79 days												7/9	◆ Milestone 39 - Post Project Analysis											
508	Milestone 40 - Civil and Electrical As Builts	Tue 3/18/14	Wed 7/16/14	85.79 days												7/16	◆ Milestone 40 - Civil and Electrical As Builts											
512	PROJECT COMPLETED	Tue 6/10/14	Wed 7/16/14	25.79 days												7/16	◆ PROJECT COMPLETED											
3	14 - New Hempstead SS Bank & Switchgear Project	NA	Mon 12/1/14	0 days									◆	12/1	◆ 14 - New Hempstead SS Bank & Switchgear Project													
1	New Hempstead SS Bank & Switchgear Project - D258BA - 10-2476; OH - T292BX - 40-XXXX;	Tue 6/21/16	Mon 12/1/14	-406 days																								
2	PLANNING	Tue 2/7/12	Wed 7/31/13	386.68 days																								
3	Milestone 1 - Planning Studies	Wed 1/4/12	Tue 5/10/11	-171 days									5/10	◆ Milestone 1 - Planning Studies														
8	Milestone 2 - Initial Project Documents	Tue 2/7/12	Wed 7/31/13	386.68 days									◆		7/31	◆ Milestone 2 - Initial Project Documents												
12	ESTIMATES	Thu 12/18/14	Wed 6/13/12	-657 days																								
13	Milestone 3- Project Estimates	Thu 12/18/14	Wed 6/13/12	-657 days									6/13	◆ Milestone 3- Project Estimates			◆											
18	SCHEDULES	Fri 2/24/12	Thu 7/11/13	359.25 days																								
19	Milestone 4 - Project Schedule	Fri 2/24/12	Thu 7/11/13	359.25 days									◆		7/11	◆ Milestone 4 - Project Schedule												
24	FUNDING	Mon 8/4/14	Mon 1/7/13	-411 days																								
25	Milestone 5 - Project Fully Authorized & Appropriated	Mon 7/28/14	Wed 6/20/12	-549 days									6/20	◆ Milestone 5 - Project Fully Authorized & Appropriated			◆											
30	Milestone 6 - Capital Funding Requests	Mon 8/4/14	Mon 1/7/13	-411 days									1/7	◆ Milestone 6 - Capital Funding Requests			◆											
36	ENGINEERING & DESIGN	Fri 2/19/16	Thu 8/7/14	-401 days																								
37	Milestone 7 - UG Distribution Civil Design	Fri 3/20/15	Tue 1/29/13	-558 days										1/29	◆ Milestone 7 - UG Distribution Civil Design			◆										
43	Milestone 8 - UG Distribution Electrical Design	Fri 10/16/15	Tue 12/10/13	-483 days												12/10	◆ Milestone 8 - UG Distribution Electrical Design				◆							

Project: PSC - Major Capital Projects M  
Date: Wed 1/23/13

Task

Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Baseline Finish

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Progress

Deadline

Major Capital Projects Master Schedule -Highlight Milestones



ID	Task Name	Baseline Finish	Finish	Finish Variance	2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
					H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
49	Milestone 9 - Substation Civil Design	Thu 11/27/14	Mon 3/4/13	-453 days										3/4	◆ Milestone 9 - Substation Civil Design													
55	Milestone 10 -Substation Electrical Design	Thu 11/27/14	Tue 6/18/13	-377.3 days										6/18	◆ Milestone 10 -Substation Electrical Design													
61	Milestone 11 - Substation Major Equipment & Relay Design	Fri 2/19/16	Thu 8/7/14	-401 days											8/7	◆ Milestone 11 - Substation Major Equipment & Relay Design												
87	APPROVALS & PERMITS	Mon 6/15/15	Mon 6/10/13	-525 days																								
88	Milestone 12 - All Municipal Approvals	Wed 11/21/12	Mon 6/10/13	143 days										6/10	◆ Milestone 12 - All Municipal Approvals													
97	Milestone 13 - SEQRA Completed	NA	Wed 2/27/13	0 days										2/27	◆ Milestone 13 - SEQRA Completed													
101	Milestone 14 - Building Permit Secured	Wed 5/20/15	Thu 6/6/13	-509 days										6/6	◆ Milestone 14 - Building Permit Secured													
109	Milestone 15 - UG Road Opening Permits Secured	Mon 4/14/14	Wed 8/8/12	-439 days										8/8	◆ Milestone 15 - UG Road Opening Permits Secured													
113	PROCUREMENT	Fri 5/13/16	Wed 7/23/14	-472 days																								
114	Milestone 16 - UG Distribution Equipment & Material Procured	Fri 3/4/16	Fri 8/23/13	-660 days										8/23	◆ Milestone 16 - UG Distribution Equipment & Material Procured													
127	Milestone 17 - Substation Equipment & Material	Fri 5/13/16	Wed 7/23/14	-472 days										7/23	◆ Milestone 17 - Substation Equipment & Material													
155	BID PACKAGES & CONSTRUCTABILITY REVIEWS	Fri 3/18/16	Thu 4/18/13	-761 days																								
156	Milestone 18 - UG Distribution Civil Bid Package Completed & Released to Purchasing	Wed 4/15/15	Wed 7/11/12	-721 days										7/11	◆ Milestone 18 - UG Distribution Civil Bid Package Completed & Released to Purchasing													
161	Milestone 19 - UG Distribution Electrical Bid Package Completed & Released to Purchasing	Wed 11/11/15	Wed 7/11/12	-871 days										7/11	◆ Milestone 19 - UG Distribution Electrical Bid Package Completed & Released to Purchasing													
166	Milestone 20 - Substation Civil Bid Package (Including UGD Civil - Interconnection) Completed & Released to Purchasing	Wed 3/4/15	Fri 3/22/13	-508.5 days										3/22	◆ Milestone 20 - Substation Civil Bid Package (Including UGD Civil - Interconnection) Completed & Released to Purchasing													
171	Milestone 21 - Substation Electrical Drawings Completed & Released to Substation Operations	Fri 3/18/16	Thu 4/18/13	-761 days										4/18	◆ Milestone 21 - Substation Electrical Drawings Completed & Released to Substation Operations													
175	PURCHASING - BID PROCESS	Tue 2/2/16	Mon 4/29/13	-721 days																								
176	Milestone 22 - UG Distribution Civil PO Awarded Completed (Back Side)	NA	Fri 9/21/12	0 days										9/21	◆ Milestone 22 - UG Distribution Civil PO Awarded Completed (Back Side)													
206	Milestone 23 - UG Distribution Electrical PO Awarded Completed	Tue 2/2/16	Fri 9/21/12	-878 days										9/21	◆ Milestone 23 - UG Distribution Electrical PO Awarded Completed													
236	Milestone 24 - Substation Civil Contractor PO Awarded	Tue 5/26/15	Mon 4/29/13	-541 days										4/29	◆ Milestone 24 - Substation Civil Contractor PO Awarded													
266	EH&S	Tue 1/12/16	Fri 5/17/13	-692 days																								
267	Milestone 25 - All EHASPs Initially Reviewed & Approved by EH&S	Tue 1/12/16	Fri 5/17/13	-692 days										5/17	◆ Milestone 25 - All EHASPs Initially Reviewed & Approved by EH&S													
281	OUTAGES	Fri 1/13/12	Wed 9/24/14	706 days																								
282	Milestone 26 - All Project Outages Scheduled	Fri 1/13/12	Wed 9/24/14	706 days												9/24	◆ Milestone 26 - All Project Outages Scheduled											
287	CONSTRUCTION	Thu 6/2/16	Mon 12/1/14	-393 days																								
288	Milestone 27 - UG Distribution Civil Construction	Thu 11/19/15	Tue 12/11/12	-767 days										12/11	◆ Milestone 27 - UG Distribution Civil Construction													
297	Milestone 28 - UG Distribution Electrical Construction	Mon 5/16/16	Wed 10/15/14	-413 days												10/15	◆ Milestone 28 - UG Distribution Electrical Construction											
309	Milestone 29- Substation Civil Construction	Tue 9/8/15	Wed 11/5/14	-219 days												11/5	◆ Milestone 29- Substation Civil Construction											
383	Milestone 30- Substation Electrical Construction - All Phases	NA	Mon 12/1/14	0 days												12/1	◆ Milestone 30- Substation Electrical Construction - All Phases											
485	PROJECT CONSTRUCTION PROCESS COMPLETED	Thu 6/2/16	Wed 10/1/14	-436 days												10/1	◆ PROJECT CONSTRUCTION PROCESS COMPLETED											
486	COMMISSIONING OF STATION	Tue 6/7/16	Mon 10/6/14	-436 days																								
487	Milestone 31- Station Checks - Phase I	NA	Mon 5/19/14	0 days												5/19	◆ Milestone 31- Station Checks - Phase I											
491	Milestone 32- Station Checks - Phase II	Tue 6/7/16	Mon 10/6/14	-436 days												10/6	◆ Milestone 32- Station Checks - Phase II											
496	ENERGIZED - PHASE I	Tue 6/7/16	Mon 5/19/14	-536 days												5/19	◆ ENERGIZED - PHASE I											
497	ENERGIZED - PHASE II	Tue 6/7/16	Mon 10/6/14	-436 days												10/6	◆ ENERGIZED - PHASE II											
498	ENERGIZED - PHASE III	NA	Mon 12/1/14	0 days												12/1	◆ ENERGIZED - PHASE III											
499	CLOSE OUT PROJECT	Tue 6/21/16	Mon 10/20/14	-436 days																								
500	Milestone 33- Post Project Analysis	Thu 6/9/16	Wed 10/15/14	-431 days												10/15	◆ Milestone 33- Post Project Analysis											
504	Milestone 34- Civil and Electrical As Builts	Tue 6/21/16	Mon 10/20/14	-436 days												10/20	◆ Milestone 34- Civil and Electrical As Builts											
508	PROJECT CLOSE OUT PROCESS COMPLETED	Tue 6/21/16	Mon 10/20/14	-436 days												10/20	◆ PROJECT CLOSE OUT PROCESS COMPLETED											
4	11 - Little Tor Substation Project	NA	Mon 8/3/15	0 days																								
1	11 - Little Tor Substation Project - SS - D387BX - 10-1075; OHT - D387BC - 10-2139; UGD - D387CD	Tue 5/27/14	Mon 8/3/15	309 days																								
2	PLANNING	Wed 9/2/09	Tue 2/15/11	379 days																								
3	Milestone 1 - Planning Studies	Wed 7/29/09	Tue 1/11/11	379 days																								
7	Milestone 2 - Initial Project Documents	Wed 9/2/09	Tue 2/15/11	379 days																								
10	ESTIMATES	Tue 8/7/12	Tue 7/23/13	250 days																								
11	Milestone 3 - Project Estimates	Tue 8/7/12	Tue 7/23/13	250 days												7/23	◆ Milestone 3 - Project Estimates											
15	SCHEDULES	Wed 9/23/09	Fri 11/14/14	1343 days																								
16	Milestone 4 - Project Schedule Completed	Wed 9/23/09	Fri 11/14/14	1343 days												11/14	◆ Milestone 4 - Project Schedule Completed											
20	FUNDING	Thu 3/22/12	Mon 7/15/13	342 days																								
21	Milestone 5 - Project Fully Authorized & Appropriated	NA	Fri 11/18/11	0 days												11/18	◆ Milestone 5 - Project Fully Authorized & Appropriated											
26	Milestone 6 - Capital Funding Requests	Thu 3/22/12	Mon 7/15/13	342 days												7/15	◆ Milestone 6 - Capital Funding Requests											
31	ENGINEERING & DESIGN	Wed 12/4/13	Wed 7/30/14	170 days																								

Project: PSC - Major Capital Projects M  
Date: Wed 1/23/13

Task

Split

Milestone

Summary

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Project Summary

External Tasks

External Milestone

Baseline Finish

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Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

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Duration-only

Manual Summary Rollup

Manual Summary

Start-only

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Finish-only

Progress


Deadline

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O&R UTILITIES				Major Capital Projects Master Schedule -Highlight Milestones																											
ID	Task Name	Baseline Finish	Finish	Finish Variance	2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		
					H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2			
32	Milestone 7- UG Distribution Civil Design	Wed 12/4/13	Wed 10/23/13	-30 days											10/23	◆ Milestone 7- UG Distribution Civil Design															
38	Milestone 8- UG Distribution Electrical Design	NA	Wed 12/4/13	0 days											12/4	◆ Milestone 8- UG Distribution Electrical Design															
44	Milestone 9- OH Transmission Design	NA	Wed 11/6/13	0 days											11/6	◆ Milestone 9- OH Transmission Design															
50	Milestone 10- Substation Civil Design	NA	Tue 7/2/13	0 days											7/2	◆ Milestone 10- Substation Civil Design															
56	Milestone 11- Substation Electrical Design	NA	Tue 7/2/13	0 days											7/2	◆ Milestone 11- Substation Electrical Design															
62	Milestone 12- Substation Major Equipment & Relay Design	NA	Wed 7/30/14	0 days												7/30	◆ Milestone 12- Substation Major Equipment & Relay Design														
81	APPROVALS & PERMITS	Thu 3/28/13	Thu 8/21/14	366 days																											
82	Milestone 13-All Substation Permits Secured	Mon 7/27/09	Thu 8/21/14	1325 days																											
128	PROCUREMENT	Wed 2/26/14	Thu 2/19/15	256 days																											
129	Milestone 14- UG Distribution Equipment & Material Procured	Wed 2/26/14	Thu 8/7/14	116 days																											
140	Milestone 15- OH Transmission Equipment & Material Procured	Wed 10/23/13	Thu 11/27/14	286 days																											
146	Milestone 16- Substation Equipment & Material Procured	Wed 5/8/13	Thu 2/19/15	467 days																											
153	BID PACKAGES & CONSTRUCTABILITY REVIEWS	Wed 1/1/14	Wed 8/27/14	170 days																											
154	Milestone 17- UG Distribution Civil Bid Package Completed & Released to Purchasing	Mon 1/28/13	Fri 8/2/13	134 days																											
159	Milestone 18- UG Distribution Electrical Bid Package Completed & Released to Purchasing	Mon 7/1/13	Fri 8/2/13	24 days																											
164	Milestone 19- OH Transmission Bid Package Completed & Released to Purchasing	Mon 2/11/13	Fri 8/2/13	124 days																											
169	Milestone 20- Substation Civil Bid Package Completed & Released to Purchasing	Fri 7/27/12	Tue 10/8/13	313 days																											
174	Milestone 21- Substation Electrical Drawings Completed & Released to Substation Operations	Wed 1/1/14	Wed 8/27/14	170 days																											
178	PURCHASING - BID PROCESS	Fri 9/20/13	Fri 2/28/14	115 days																											
179	Milestone 22- UG Distribution Civil PO Awarded	Fri 4/19/13	Fri 2/28/14	226 days																											
209	Milestone 23- UG Distribution Electrical PO Awarded	Fri 9/20/13	Fri 2/28/14	115 days																											
239	Milestone 24- OH Transmission PO Awarded	Fri 7/26/13	Wed 1/15/14	124 days																											
269	Milestone 25- Substation Civil PO Awarded	Thu 10/18/12	Mon 12/30/13	313 days																											
299	EH&S	Fri 8/30/13	Fri 2/7/14	115 days																											
300	Milestone 26- Project Construction EHASP	Fri 8/30/13	Fri 2/7/14	115 days																											
317	OUTAGES	Fri 8/7/09	Mon 3/16/15	1462 days																											
318	Milestone 27- All Project Outages Scheduled	Fri 8/7/09	Mon 3/16/15	1462 days																											
323	CONSTRUCTION	Thu 2/27/14	Wed 4/22/15	299 days																											
324	Milestone 28- UG Distribution Civil Construction	Thu 2/27/14	Tue 7/15/14	98 days																											
333	Milestone 29- UG Distribution Electrical Construction Completed (O&R)	NA	Fri 1/30/15	0 days																											
344	Milestone 30 - OH Transmission Construction	NA	Fri 6/6/14	0 days																											
356	Milestone 31 -Substation Civil Construction	NA	Mon 1/5/15	0 days																											
378	Milestone 32 - Substation Electrical Construction Completed (O&R)	NA	Wed 4/22/15	0 days																											
429	COMMISSIONING OF STATION	Tue 3/4/14	Mon 4/27/15	299 days																											
430	Milestone 33- Station Checks	Tue 3/4/14	Mon 4/27/15	299 days																											
435	ENERGIZED	Tue 5/27/14	Mon 4/27/15	239 days																											
436	CLOSE OUT	Tue 3/18/14	Mon 8/3/15	359 days																											
437	Milestone 34- Post Project Analysis	Tue 3/18/14	Mon 8/3/15	359 days																											
441	Milestone 35 - Civil and Electrical As Builts	Tue 3/18/14	Mon 6/29/15	334 days																											
3	Future Projects	NA	Mon 7/2/18	0 days																											
1	21 - Port Jervis Expansion Project	NA	Mon 7/2/18	0 days																											
1	21 - Port Jervis Substation Expansion Project - D167BA -- D167CC -- D167CA	Tue 6/3/14	Mon 7/2/18	1064 days																											
2	PLANNING	Mon 11/9/09	Mon 11/9/09	0 days																											
12	PROJECT PLANNING COMPLETED	Mon 11/9/09	Mon 11/9/09	0 days																											
13	ESTIMATES	Tue 2/7/12	Wed 6/15/16	1136 days																											
19	PROJECT ESTIMATE COMPLETED	Tue 2/7/12	Wed 6/15/16	1136 days																											
20	SCHEDULES	Mon 11/16/09	Wed 10/26/16	1812 days																											
26	PROJECT SCHEDULE COMPLETED	Wed 10/14/09	Wed 10/26/16	1835 days																											
27	FUNDING	Fri 5/11/12	Wed 12/21/16	1203 days																											
39	PROJECT FUNDING COMPLETED	Fri 5/11/12	Wed 6/22/16	1073 days																											
Project: PSC - Major Capital Projects Master Schedule - Milestones - January 2013 Date: Wed 1/23/13		Task	◆	Project Summary	▬	Inactive Task	▬	Duration-only	▬	Finish-only	▬																				
		Split	.....	External Tasks	▬	Inactive Milestone	◆	Manual Summary Rollup	▬	Progress	▬																				
		Milestone	◆	External Milestone	◆	Inactive Summary	▬	Manual Summary	▬	Deadline	▬																				
		Summary		Baseline Finish	◆	Manual Task	▬	Start-only	▬																						
PSC - Major Capital Projects Master Schedule - Milestones - January 2013 Page 6																												Project Specialist:Liguori, Laura Prepare By: Willie Velez Jr.			



## Major Capital Projects Master Schedule -Highlight Milestones



ID	Task Name	Baseline Finish	Finish	Finish Variance	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
					H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
40	ENGINEERING & DESIGN	Tue 1/29/13	Thu 4/6/17	1092 days												
96	PROJECT ENGINEERING & DESIGN COMPLETED	Tue 1/29/13	Thu 4/6/17	1092 days									4/6	PROJECT ENGINEERING & DESIGN COMPLETED		
97	APPROVALS & PERMITS	Thu 9/13/12	Tue 9/13/16	1043 days												
150	PROJECT APPROVALS & PERMITS SECURED	Tue 2/7/12	Wed 5/4/16	1106 days									5/4	PROJECT APPROVALS & PERMITS SECURED		
151	PROCUREMENT	Tue 4/23/13	Mon 11/27/17	1199 days												
190	PROJECT EQUIPMENT & MATERIAL PROCUREMENT COMPLETED	Tue 4/23/13	Mon 11/27/17	1199 days									11/27	PROJECT EQUIPMENT & MATERIAL PROCUREMENT COMPLETED		
191	BID PACKAGES & CONSTRUCTABILITY REVIEWS	Tue 2/26/13	Thu 5/4/17	1092 days												
216	PROJECT BID PACKAGES & CONSTRUCTABILITY REVIEWS COMPLETED	Tue 2/26/13	Thu 5/4/17	1092 days									5/4	PROJECT BID PACKAGES & CONSTRUCTABILITY REVIEWS COMPLETED		
217	PURCHASING - BID PROCESS	Fri 2/8/13	Wed 8/16/17	1178 days												
311	PROJECT PURCHASE ORDERS SECURED	Fri 2/8/13	Wed 8/16/17	1178 days									8/16	PROJECT PURCHASE ORDERS SECURED		
312	EH&S	Fri 1/18/13	Fri 7/14/17	1170 days												
330	PROJECT EH&S PROCESS COMPLETED	Fri 1/18/13	Fri 7/14/17	1170 days									7/14	PROJECT EH&S PROCESS COMPLETED		
331	OUTAGES	Wed 10/14/09	Wed 10/14/09	0 days												
336	PROJECT OUTAGE SCHEDULE PROCESS COMPLETED	Wed 10/14/09	Wed 10/14/09	0 days	10/14											
337	CONSTRUCTION	Tue 6/3/14	Mon 6/11/18	1049 days												
527	PROJECT CONSTRUCTION PROCESS COMPLETED	Wed 8/7/13	Fri 5/25/18	1252 days										5/25	PROJECT CONSTRUCTION PROCESS COMPLETED	
528	COMMISSIONING OF STATION	Fri 4/25/14	Thu 6/14/18	1079 days												
534	ENERGIZED	Fri 4/25/14	Thu 6/14/18	1079 days										6/14	ENERGIZED	
535	CLOSE OUT	Tue 6/3/14	Mon 7/2/18	1064 days												
544	PROJECT CLOSE OUT PROCESS COMPLETED	Tue 6/3/14	Mon 7/2/18	1064 days										7/2	PROJECT CLOSE OUT PROCESS COMPLETED	
545	Projected Construction Completion	Tue 6/3/14	Mon 7/2/18	1064 days										7/2	Projected Construction Completion	

Project: PSC - Major Capital Projects M Date: Wed 1/23/13	Task		Project Summary		Inactive Task		Duration-only		Finish-only	
	Split		External Tasks		Inactive Milestone		Manual Summary Rollup		Progress	
	Milestone		External Milestone		Inactive Summary		Manual Summary		Deadline	
	Summary		Baseline Finish		Manual Task		Start-only			