ID	Task Name	Duration	Start
1	**Design**	**619 days**	**Fri 9/1/17**
2	Define Stands, ETC to be removed	3 days	Fri 9/1/17
3	Evaluate Test Configuration	14 days	Wed 9/13/17
4	Design/Engineering of New End Cans	20 days	Wed 9/13/17
5	Design Wave Guides	10 days	Wed 9/27/17
6	Waveguide design review	1 day	Wed 10/11/17
7	Egress evaluation for LERF Gallery space	2 days	Wed 9/20/17
8	Modify Design of Clean room for CM work in tunnel	3 days	Tue 9/26/17
9	Conduct Final Design Review of New Hardware	2 days	Tue 10/10/17
10	COMP: LERF New Hardware FDR	1 day	Thu 10/12/17
11	Evaluate Vault Operational Envelope to include Safety	10 days	Fri 2/2/18
12	Conduct Testing Readiness Review	2 days	Fri 2/16/18
13	COMP: Testing Readiness Review	1 day	Tue 2/20/18
14	Project Oversight	619 days	Fri 9/1/17
15	**Procurements**	**88 days**	**Tue 10/3/17**
16	RQN: Wave Guide Connections	1 day	Tue 10/3/17
17	Prepare Award Documents	5 days	Wed 10/4/17
18	AWARD: Wave Guide Connections	1 day	Mon 10/23/17
19	Vendor Effort Fabricate Wave Guide Connections	60 days	Mon 10/23/17
20	ACCEPT: Wave Guide Connections	1 day	Mon 1/15/18

Project: LCLS II at the LERF
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Task		Manual Summary Rollup	
Split		Manual Summary	
Milestone		Start-only	
Summary		Finish-only	
Project Summary		External Tasks	
Inactive Task		External Milestone	
Inactive Milestone		Deadline	
Inactive Summary		Progress	
Manual Task		Manual Progress	
Duration-only			

ID	Task Name	Duration	Start
21	RQN: Two Sets Cryomodule End Caps	1 day	Mon 10/16/17
22	Prepare Award Documents	5 days	Mon 10/23/17
23	AWARD: Two Sets Cryomodule End Caps	1 day	Mon 10/30/17
24	Vendor Effort Fabricate Two Sets of Cryomodule End Caps	70 days	Tue 10/31/17
25	ACCEPT: Two Sets Cryomodule End Caps	1 day	Tue 2/6/18
26	RQN: Clean room for CM work in tunnel	1 day	Tue 10/3/17
27	ACCEPT: Clean room for CM work in tunnel	1 day	Mon 12/4/17
28	RQN: Four Sets of Cryomodule Stands	1 day	Tue 10/3/17
29	Prepare Award Documents	5 days	Wed 10/4/17
30	AWARD: Four Sets of Cryomodule Stands	1 day	Wed 10/11/17
31	Vendor Effort Fabricate Four Sets of Cryomodule Stands	38 days	Thu 10/12/17
32	ACCEPT: Four Sets of Cryomodule Stands	1 day	Tue 12/5/17
33	RQN: AC Power Upgrade	1 day	Tue 10/3/17
34	Prepare Award Documents	5 days	Wed 10/4/17
35	AWARD: AC Power Panel Procurement	1 day	Wed 10/11/17
36	Vendor Effort Perform AC Power Panel procurement	18 days	Thu 10/12/17
37	ACCEPT: AC Power Panel Procuirement	1 day	Thu 12/21/17
38	RQN: Additional sets of Bayonet Boxes and End Cans to Support additional testing	1 day	Tue 10/3/17
39	Prepare Award Documents	5 days	Wed 10/4/17
40	AWARD: Additional sets of Bayonet Boxes and End Cans	1 day	Wed 10/11/17

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Task		Manual Summary Rollup	
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Inactive Task		External Milestone	
Inactive Milestone		Deadline	
Inactive Summary		Progress	
Manual Task		Manual Progress	
Duration-only			

ID	Task Name	Duration	Start
41	Vendor Effort Additional sets of Bayonet Boxes and End Cans	80 days	Thu 10/12/17
42	ACCEPT: Additional sets of Bayonet Boxes and End Cans	1 day	Thu 2/1/18
43	**SLAC Loaner Hardware**	**103 days**	**Wed 9/13/17**
44	Oversight of SLAC Loaner Hardware	89 days	Wed 9/13/17
45	SLAC Ship SSAs to Jlab	66 days	Wed 9/13/17
46	RCV: 16 SSAs from SLAC	2 days	Thu 12/14/17
47	Crane SSAs to LERF gallery	1 day	Mon 12/18/17
48	SLAC Ship Isolators to JLab	23 days	Thu 12/14/17
49	RCV: 16 Isolators from SLAC	1 day	Mon 1/22/18
50	SLAC Ship Couplers to JLab	11 days	Fri 12/1/17
51	RCV: 16 Dual Directional Couplers from SLAC	1 day	Mon 12/18/17
52	SLAC ShipLLRF Racks to JLab	23 days	Thu 12/14/17
53	RCV: Four Complete LLRF Racks (fully dressed with chassis and internal cables) from SLAC	1 day	Thu 2/1/18
54	SLAC Ship Cryo Controls to Jlab	13 days	Thu 12/14/17
55	RCV: Two Complete Cryo Controls Racks (fully dressed with equipment) from SLAC	1 day	Tue 1/2/18
56	SLAC Ship Vacuum Controls to JLab	13 days	Thu 12/14/17
57	RCV: Beam line, Coupler and Inslating Vacuum Control Racks (fully dressed with equipment) from SLAC	1 day	Tue 1/2/18
58	**LERF Set-up**	**142 days**	**Tue 10/3/17**
59	Remove 20' of back leg of existing machine to install/position Cryopmodules	5 days	Fri 9/8/17
60	Remove Shielding Blocks	1 day	Mon 9/11/17

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Inactive Task		External Milestone	
Inactive Milestone		Deadline	
Inactive Summary		Progress	
Manual Task		Manual Progress	
Duration-only			

ID	Task Name	Duration	Start
61	Remove U-Tubes from FL02 & FL03 Cryomodules in LERF Vault	1 day	Fri 9/1/17
62	Remove U-tubes from FL04 & warm up	3 days	Mon 10/2/17
63	Remove waveguide and cabling from CM FL04	4 days	Thu 10/5/17
64	Install clean room and secure clean vacuum on LERF cryomodules	6 days	Fri 10/13/17
65	Move CM FL02 & FL03 to CEBAF linac	2 days	Tue 10/24/17
66	Move CM FL04 to FL02 position	1 day	Thu 10/26/17
67	Reconnect cryomodule in FL02 position	6 days	Fri 10/27/17
68	Locate and Install CM mounting plates	1 day	Mon 10/30/17
69	Align CM mounting plates	3 days	Wed 11/1/17
70	Installation of LLRF	43 days	Fri 12/15/17
71	Installation of High Power SSAs in gallery	31 days	Mon 1/15/18
72	Install waveguide in gallery	31 days	Thu 12/14/17
73	Install and Check out Cabling	43 days	Tue 12/12/17
74	Install First set of Cryomodules	35 days	Tue 1/9/18
75	Connect waveguide to cryomodules	4 days	Tue 2/27/18
76	Install End Caps	17 days	Fri 2/2/18
77	Connect mid-point connections on CMs	4 days	Mon 2/5/18
78	Superconducting Magnet Test	8 days	Mon 4/2/18
79	BPM Checkout with Vector Network Analyzer	16 days	Wed 4/11/18
80	Install Waveguides and Components	22 days	Tue 1/16/18

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Task	Manual Summary Rollup
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Project Summary	External Tasks
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Inactive Milestone	Deadline
Inactive Summary	Progress
Manual Task	Manual Progress
Duration-only	

ID	Task Name	Duration	Start
81	Install and Set-up Cryogenic Controls	10 days	Tue 2/27/18
82	Safety System Tie in to PPS	25 days	Fri 12/22/17
83	Commission RF System into Shorts	21 days	Wed 3/21/18
84	Commission Cryo System	25 days	Tue 3/13/18
85	ReInstall Shielding	5 days	Fri 1/26/18
86	Decarad and Faraday cups for Radiation monitoring	50 days	Tue 10/3/17
87	**CEBAF Operations**	**303 days**	**Wed 5/9/18**
88	CEBAF Low Energy Summer Run	42 days	Wed 5/9/18
89	CEBAF Down	61 days	Fri 7/6/18
90	CEBAF FY19 10 Week Run	60 days	Mon 10/1/18
91	CEBAF Down	30 days	Mon 12/24/18
92	CEBAF FY19 6 Week Run	41 days	Mon 2/4/19
93	CEBAF Down	27 days	Tue 4/2/19
94	CEBAF FY19 Low Energy Summer Run	42 days	Thu 5/9/19
95	**Cryomodule Testing**	**337 days**	**Fri 7/6/18**
96	Two Cryomodule Testing	43 days	Fri 7/6/18
97	ESS Testing Support	43 days	Fri 7/6/18
98	LERF Testing Support and Training	43 days	Fri 7/6/18
99	LERF Operating Costs	43 days	Fri 7/6/18
100	De-Installation	10 days	Wed 9/5/18

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Task		Manual Summary Rollup	
Split		Manual Summary	
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Summary		Finish-only	
Project Summary		External Tasks	
Inactive Task		External Milestone	
Inactive Milestone		Deadline	
Inactive Summary		Progress	
Manual Task		Manual Progress	
Duration-only			

ID	Task Name	Duration	Start
101	Train Second Testing Crew	20 days	Wed 9/19/18
102	Install Second set of Cryomodules	25 days	Wed 9/19/18
103	Two Cryomodule Testing	45 days	Mon 12/24/18
104	LERF Testing Support	45 days	Mon 12/24/18
105	LERF Operating Costs	45 days	Mon 12/24/18
106	De-Installation	15 days	Mon 2/25/19
107	Install Third set of Cryomodules	25 days	Mon 3/18/19
108	Two Cryomodule Testing	38 days	Mon 4/22/19
109	LERF Testing Support	38 days	Mon 4/22/19
110	LERF Operating Costs	38 days	Mon 4/22/19
111	De-Installation	15 days	Thu 6/13/19
112	Install Fourth set of Cryomodules	25 days	Thu 7/4/19
113	Two Cryomodule Testing	38 days	Thu 8/8/19
114	LERF Testing Support	38 days	Thu 8/8/19
115	LERF Operating Costs	38 days	Thu 8/8/19
116	De-Installation	15 days	Tue 10/1/19
117	Misc Tooling to Support Repeated Tests	322 days	Fri 7/6/18
118	**Project Closeout and Restoration of LERF**	**61 days?**	**Tue 10/22/19**
119	Remove and Return LCLS II Equipment	60 days	Tue 10/22/19
120	Restore LERF RF and SS to Pre LCLS II Configuration	40 days	Tue 10/22/19

Project: LCLS II at the LERF
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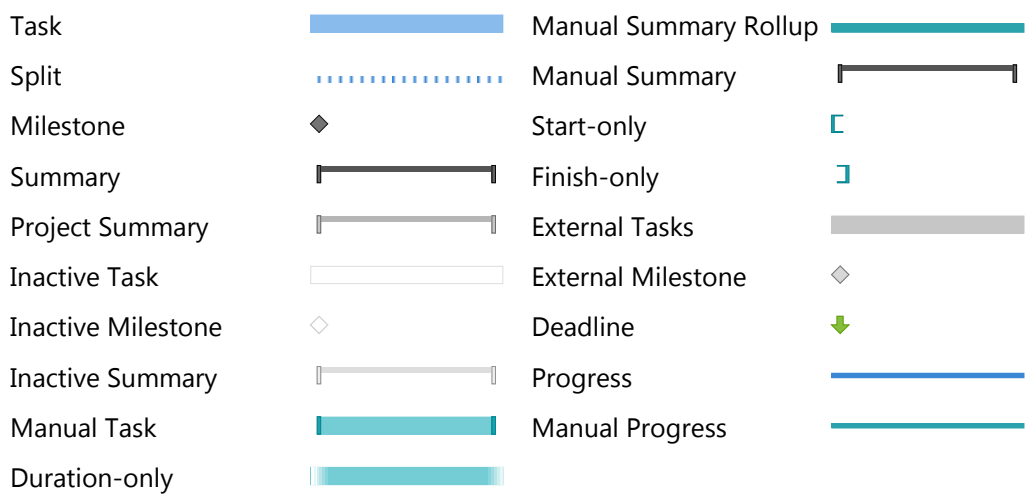

ID	Task Name	Duration	Start
121	Restore LERF Linac and Vacuum Systems	40 days	Tue 10/22/19
122	LERF LCLS II Testing Complete	1 day?	Tue 1/14/20

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Task		Manual Summary Rollup	
Split		Manual Summary	
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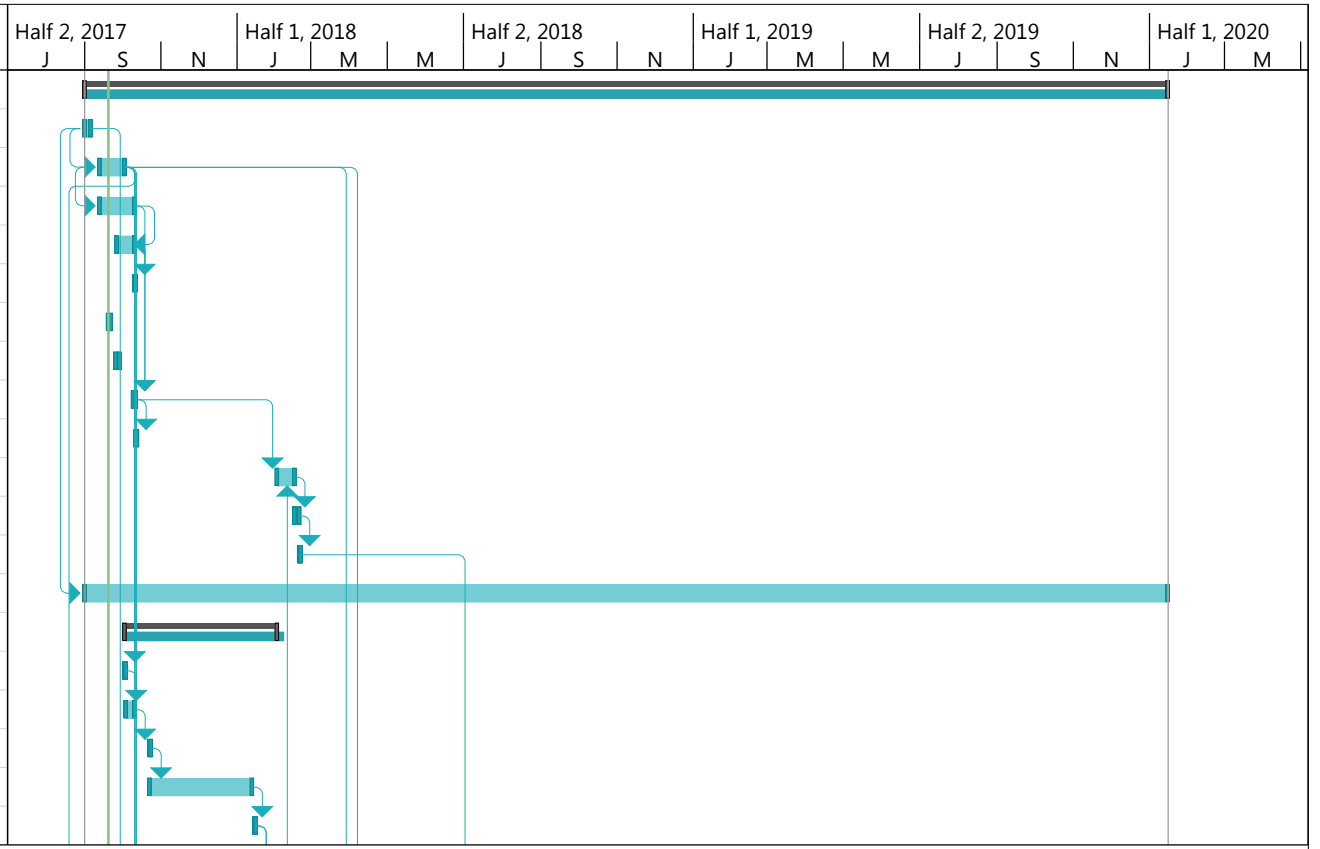
Summary		Finish-only	
Project Summary		External Tasks	
Inactive Task		External Milestone	
Inactive Milestone		Deadline	
Inactive Summary		Progress	
Manual Task		Manual Progress	
Duration-only			

Finish	Predecessors	Resource Names
Wed 1/15/20		
Tue 9/5/17		
Mon 10/2/17	2SS	
Tue 10/10/17	3SS	
Tue 10/10/17	4FF	
Wed 10/11/17	5	
Thu 9/21/17		
Thu 9/28/17		
Wed 10/11/17	5,4	
Thu 10/12/17	9	
Thu 2/15/18	9,85	
Mon 2/19/18	11	
Tue 2/20/18	12	
Wed 1/15/20	2SS	
Thu 2/1/18		
Tue 10/3/17	3	
Tue 10/10/17	16	
Mon 10/23/17	17	
Fri 1/12/18	18	
Mon 1/15/18	19	



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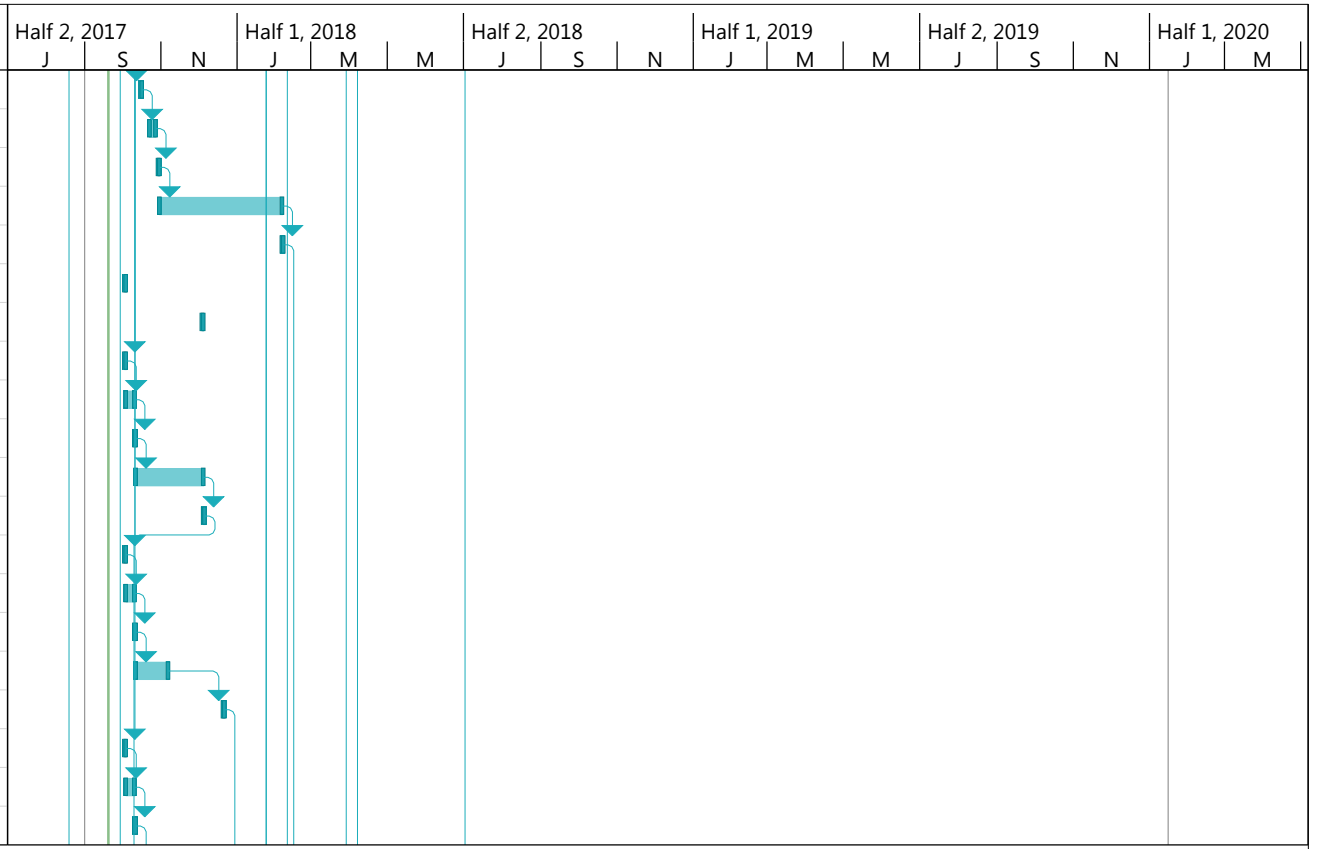
Task		Manual Summary Rollup	
Split		Manual Summary	
Milestone		Start-only	
Summary		Finish-only	
Project Summary		External Tasks	
Inactive Task		External Milestone	
Inactive Milestone		Deadline	
Inactive Summary		Progress	
Manual Task		Manual Progress	
Duration-only			

Finish	Predecessors	Resource Names
Mon 10/16/17	3	
Fri 10/27/17	21	
Mon 10/30/17	22	
Mon 2/5/18	23	
Tue 2/6/18	24	
Tue 10/3/17		
Mon 12/4/17		
Tue 10/3/17	3	
Tue 10/10/17	28	
Wed 10/11/17	29	
Mon 12/4/17	30	
Tue 12/5/17	31	
Tue 10/3/17	3	
Tue 10/10/17	33	
Wed 10/11/17	34	
Mon 11/6/17	35	
Thu 12/21/17	36	
Tue 10/3/17	3	
Tue 10/10/17	38	
Wed 10/11/17	39	



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Task		Manual Summary Rollup	
Split		Manual Summary	
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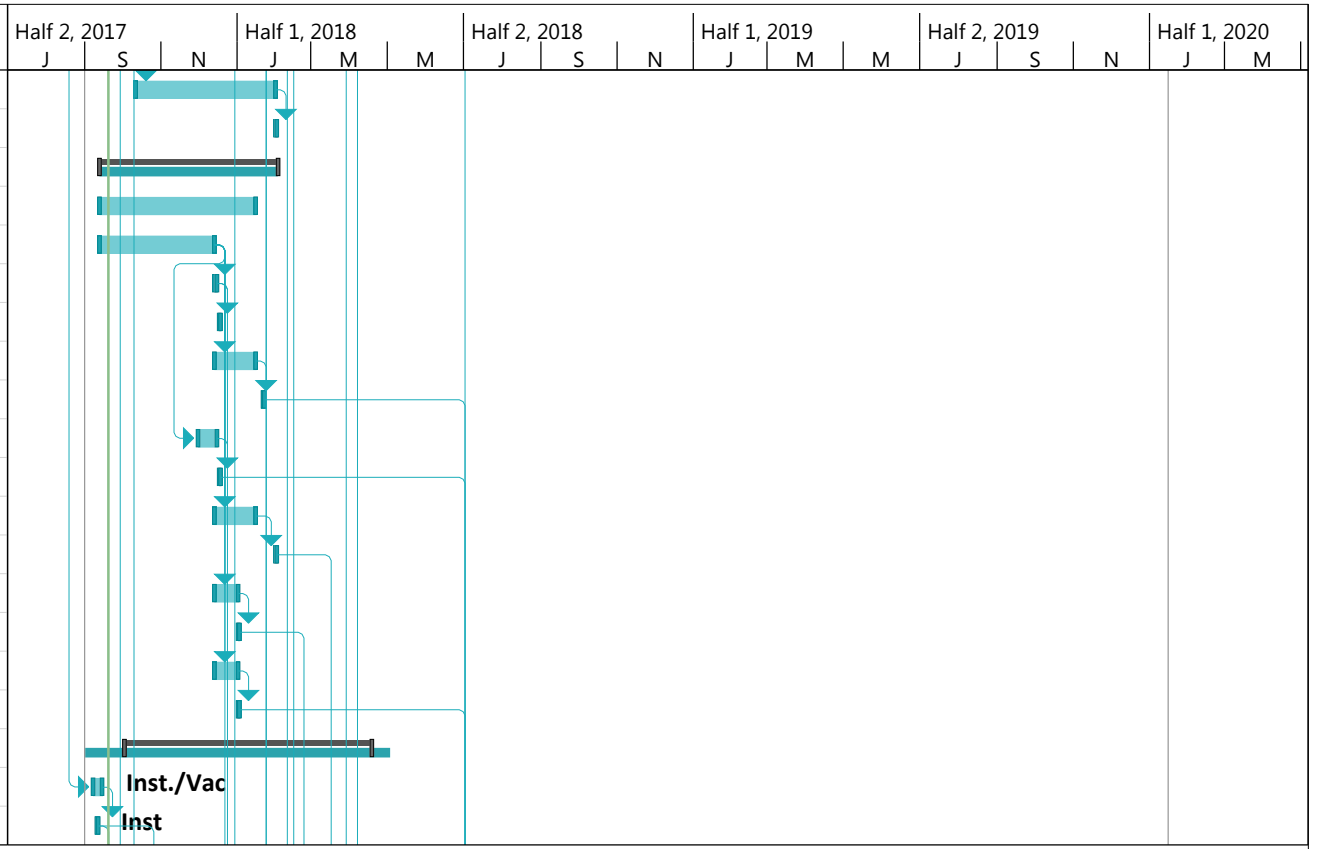
Inactive Task		External Milestone	
Inactive Milestone		Deadline	
Inactive Summary		Progress	
Manual Task		Manual Progress	
Duration-only			

Finish	Predecessors	Resource Names
Wed 1/31/18	40	
Thu 2/1/18	41	
Fri 2/2/18		
Mon 1/15/18		
Wed 12/13/17		
Fri 12/15/17	45	
Mon 12/18/17	46	
Mon 1/15/18	45	
Mon 1/22/18	48	
Fri 12/15/17	45	
Mon 12/18/17	50	
Mon 1/15/18	45	
Thu 2/1/18	52	
Mon 1/1/18	45	
Tue 1/2/18	54	
Mon 1/1/18	45	
Tue 1/2/18	56	
Wed 4/18/18		
Thu 9/14/17	3	Inst./Vac
Mon 9/11/17	59	Inst



Project: LCLS II at the LERF
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Task		Manual Summary Rollup	
Split		Manual Summary	
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Summary		Finish-only	
Project Summary		External Tasks	
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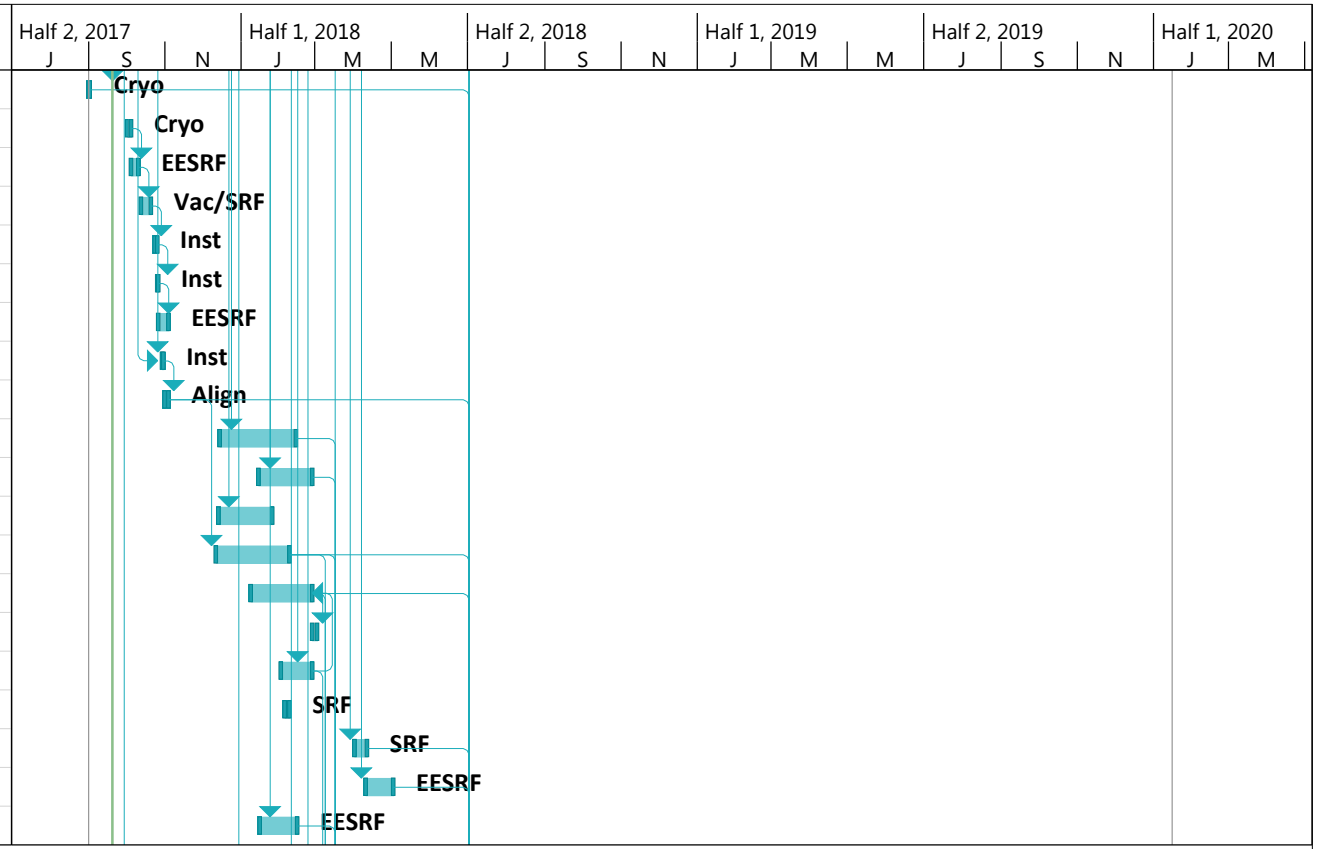
Inactive Milestone		Deadline	
Inactive Summary		Progress	
Manual Task		Manual Progress	
Duration-only			

Finish	Predecessors	Resource Names
Fri 9/1/17	60	Cryo
Wed 10/4/17		Cryo
Tue 10/10/17	62	EESRF
Fri 10/20/17	63	Vac/SRF
Wed 10/25/17	64	Inst
Thu 10/26/17	65	Inst
Fri 11/3/17	66	EESRF
Mon 10/30/17	60,32	Inst
Fri 11/3/17	68	Align
Tue 2/13/18	46	
Mon 2/26/18	20	
Thu 1/25/18	45	
Thu 2/8/18	69	
Mon 2/26/18	76FF	
Fri 3/2/18	74	
Mon 2/26/18	25	
Thu 2/8/18		SRF
Wed 4/11/18	3	SRF
Wed 5/2/18	3	EESRF
Wed 2/14/18	20	EESRF



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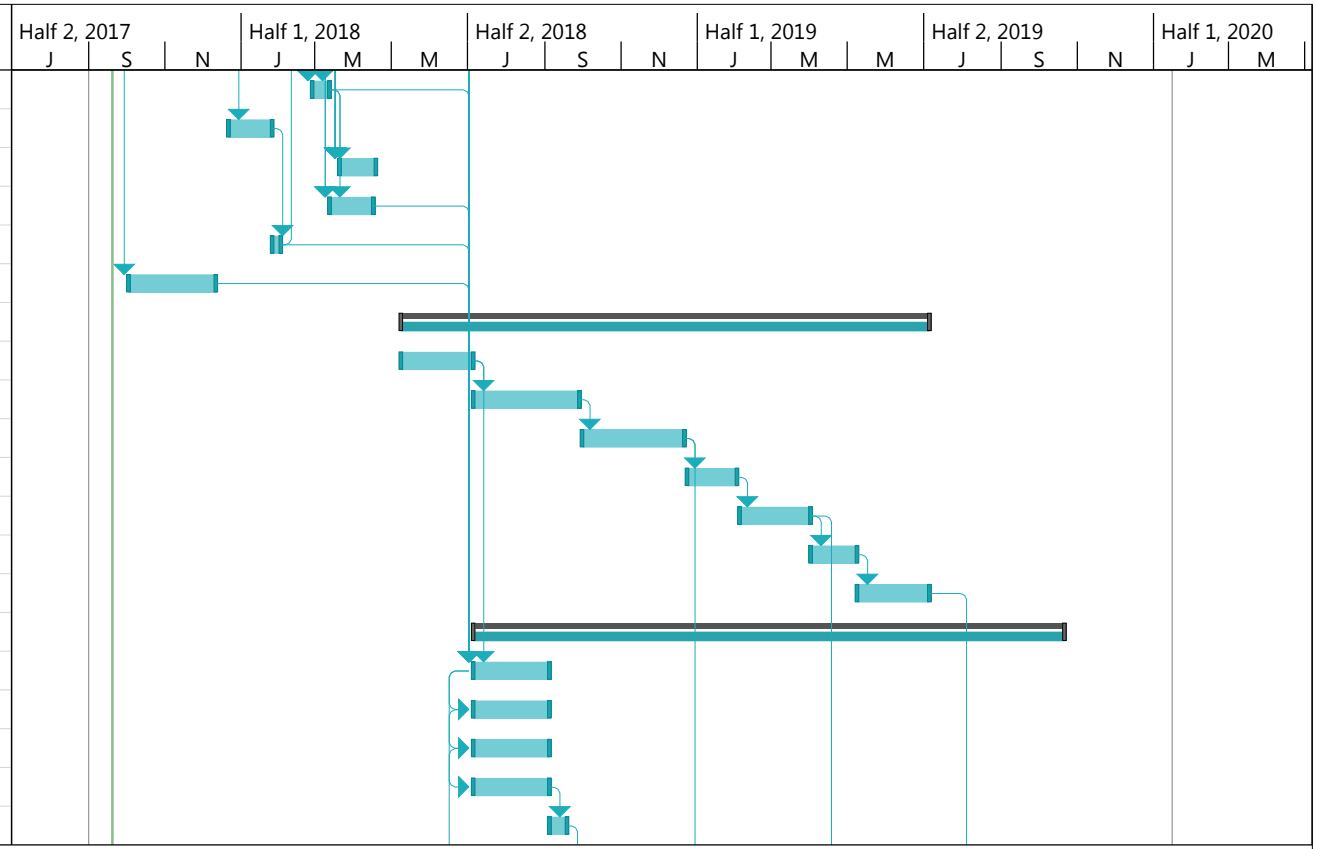
Inactive Milestone		Deadline	
Inactive Summary		Progress	
Manual Task		Manual Progress	
Duration-only			

Finish	Predecessors	Resource Names
Mon 3/12/18	55,76	
Thu 1/25/18	37	
Wed 4/18/18	53,70,71,73,8(	
Mon 4/16/18	73,74,81	
Thu 2/1/18	82	
Mon 12/11/17	2	
Fri 7/5/19		
Thu 7/5/18		
Fri 9/28/18	88	
Fri 12/21/18	89	
Fri 2/1/19	90	
Mon 4/1/19	91	
Wed 5/8/19	92	
Fri 7/5/19	93	
Mon 10/21/19		
Tue 9/4/18	13,49,51,57,6:	
Tue 9/4/18	96SS	
Tue 9/4/18	97SS	
Tue 9/4/18	98SS	
Tue 9/18/18	99	



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Task		Manual Summary Rollup	
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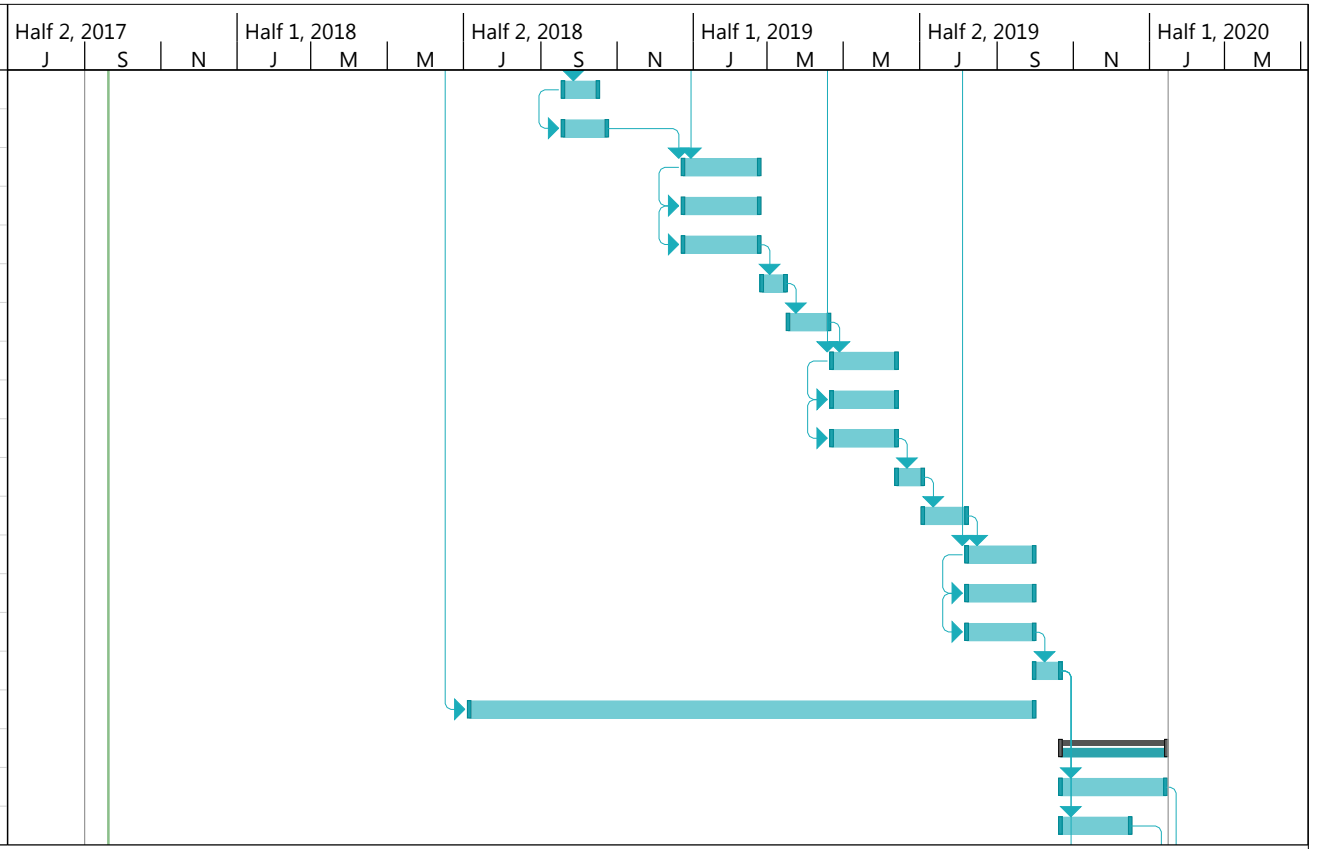
Inactive Milestone		Deadline	
Inactive Summary		Progress	
Manual Task		Manual Progress	
Duration-only			

Finish	Predecessors	Resource Names
Tue 10/16/18	100	
Tue 10/23/18	101SS	
Fri 2/22/19	102,90	
Fri 2/22/19	103SS	
Fri 2/22/19	104SS	
Fri 3/15/19	105	
Fri 4/19/19	106	
Wed 6/12/19	107,92	
Wed 6/12/19	108SS	
Wed 6/12/19	109SS	
Wed 7/3/19	110	
Wed 8/7/19	111	
Mon 9/30/19	112,94	
Mon 9/30/19	113SS	
Mon 9/30/19	114SS	
Mon 10/21/19	115	
Mon 9/30/19	96SS	
Tue 1/14/20		
Mon 1/13/20	116	
Mon 12/16/19	116	



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Project Summary		External Tasks	
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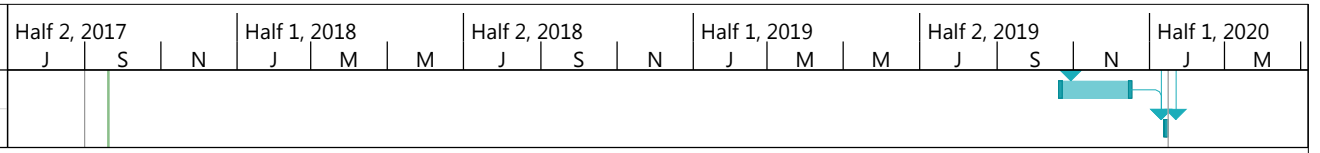
Inactive Milestone		Deadline	
Inactive Summary		Progress	
Manual Task		Manual Progress	
Duration-only			

Finish	Predecessors	Resource Names
Mon 12/16/19	116	
Tue 1/14/20	119,120,121	



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Duration-only			