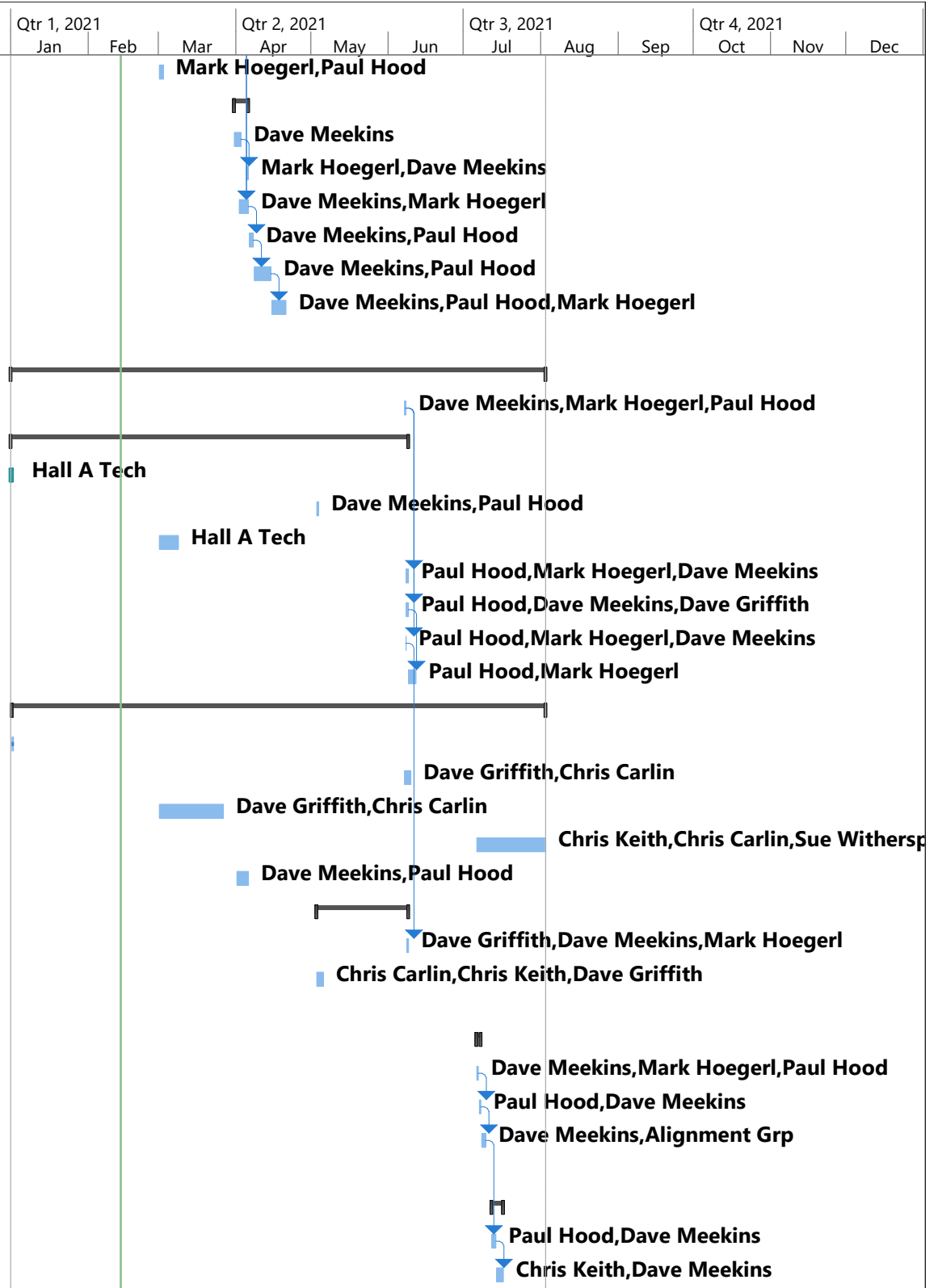


ID	Task Mode	Task Name	Duration	% Complete	Start	Finish	Predecessors	Timeline											
								Dec	Qtr 1, 2021			Qtr 2, 2021			Qtr 3, 2021		Qtr 4, 2021		
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		<b>SBS Std target install</b>	<b>152 days?</b>	<b>24%</b>	<b>Fri 1/1/21</b>	<b>Mon 8/2/21</b>		[Gantt bar from Dec to Aug]											
2	✓	<b>Remove PREX config</b>	<b>1 day</b>	<b>100%</b>	<b>Tue 1/5/21</b>	<b>Tue 1/5/21</b>		[Gantt bar on Jan 5]											
3	✓	Reroute He coolant lines.	1 day	100%	Tue 1/5/21	Tue 1/5/21		[Gantt bar on Jan 5]											
4																			
5	✓	<b>Target Design</b>	<b>1 day</b>	<b>100%</b>	<b>Fri 1/1/21</b>	<b>Fri 1/1/21</b>		[Gantt bar on Jan 1]											
6	✓	<b>Cryo-Target Design</b>	<b>1 day</b>	<b>100%</b>	<b>Fri 1/1/21</b>	<b>Fri 1/1/21</b>		[Gantt bar on Jan 1]											
7	✓	Design large OD cells	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
8	✓	Design smaller OD cells	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
9	✓	Design double cell block	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
10	✓	<b>Solid target design</b>	<b>1 day</b>	<b>100%</b>	<b>Fri 1/1/21</b>	<b>Fri 1/1/21</b>		[Gantt bar on Jan 1]											
11	✓	Thicknesses	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
12	✓	Ladder design	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
13	✓	Design optics/dummy target	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
14																			
15		<b>Target Fabrication</b>	<b>65 days</b>	<b>31%</b>	<b>Fri 1/1/21</b>	<b>Thu 4/1/21</b>		[Gantt bar from Jan 1 to Mar 24]											
16		flow diverters	30 days	30%	Thu 2/11/21	Wed 3/24/21		[Gantt bar from Feb 11 to Mar 24]											
17	⚠	flow diverter mounts	30 days	28%	Thu 2/11/21	Wed 3/24/21		[Gantt bar from Feb 11 to Mar 24]											
18	✓	double cell blocks	25 days	100%	Tue 1/5/21	Mon 2/8/21		[Gantt bar on Jan 5]											
19	⚠	15cm exit windows	65 days	15%	Fri 1/1/21	Thu 4/1/21		[Gantt bar from Jan 1 to Mar 24]											
20	⚠	15 cm entrance windows	65 days	25%	Fri 1/1/21	Thu 4/1/21		[Gantt bar from Jan 1 to Mar 24]											
21	✓	<b>Solid Targets</b>	<b>1 day</b>	<b>100%</b>	<b>Fri 1/1/21</b>	<b>Fri 1/1/21</b>		[Gantt bar on Jan 1]											
22	✓	Fab mounts and frame	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
23	✓	Fab BeO	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
24	✓	Fab C hole 5 mm	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
25	✓	Fab C hole 2 mm	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
26		<b>Optics Targets</b>	<b>51 days</b>	<b>5%</b>	<b>Fri 1/1/21</b>	<b>Fri 3/12/21</b>		[Gantt bar from Jan 1 to Mar 12]											
27	✓	Fab C foils	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
28	⚠	Fab mounts and frame	20 days	0%	Mon 2/15/21	Fri 3/12/21		[Gantt bar from Feb 15 to Mar 12]											
29	✓	<b>Dummy Target</b>	<b>1 day</b>	<b>100%</b>	<b>Fri 1/1/21</b>	<b>Fri 1/1/21</b>		[Gantt bar on Jan 1]											
30	✓	Fabricate	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
31	✓	fabricate foils	1 day	100%	Fri 1/1/21	Fri 1/1/21		[Gantt bar on Jan 1]											
32	⚠	Modify mounting plate for new hangers.	1 day	0%	Mon 2/22/21	Mon 2/22/21		[Gantt bar on Feb 22]											
33																			
34		<b>Target assembly</b>	<b>41 days?</b>	<b>0%</b>	<b>Tue 2/23/21</b>	<b>Tue 4/20/21</b>		[Gantt bar from Feb 23 to Apr 20]											
35		<b>Lifter</b>	<b>4 days?</b>	<b>0%</b>	<b>Tue 2/23/21</b>	<b>Fri 2/26/21</b>		[Gantt bar from Feb 23 to Feb 26]											
36	⚠	Install motor and gear reducers	2 days	0%	Tue 2/23/21	Wed 2/24/21		[Gantt bar from Feb 23 to Feb 24]											
37		level target in stand	1 day?	0%	Thu 2/25/21	Thu 2/25/21	36	[Gantt bar on Feb 25]											
38		Install drive chain and test	1 day?	0%	Fri 2/26/21	Fri 2/26/21	37	[Gantt bar on Feb 26]											

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

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								Dec	Qtr 1, 2021			Qtr 2, 2021			Qtr 3, 2021			Qtr 4, 2021		
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
39		Install lower loop piping	2 days	0%	Mon 3/1/21	Tue 3/2/21														
40		<b>Restore wiring</b>	<b>4 days</b>	<b>0%</b>	<b>Wed 3/31/21</b>	<b>Mon 4/5/21</b>														
41		Reconnect wires interal	3 days	0%	Wed 3/31/21	Fri 4/2/21														
42		test wiring internal	1 day	0%	Mon 4/5/21	Mon 4/5/21	41													
43		Assemble cells/blocks	2 days	0%	Fri 4/2/21	Mon 4/5/21	19,20													
44		reverse leak test block assys	2 days	0%	Tue 4/6/21	Wed 4/7/21	43													
45		Leak test cell block assys cold	5 days	0%	Thu 4/8/21	Wed 4/14/21	44													
46		Install cell block assys and connect loop piping	4 days	0%	Thu 4/15/21	Tue 4/20/21	45													
47																				
48		<b>Installation</b>	<b>152 days?</b>	<b>3%</b>	<b>Fri 1/1/21</b>	<b>Mon 8/2/21</b>														
49		Move target to Hall A	0.5 days	0%	Mon 6/7/21	Mon 6/7/21														
50		<b>Install chamber</b>	<b>112.5 days?</b>	<b>10%</b>	<b>Fri 1/1/21</b>	<b>Tue 6/8/21</b>														
51		Position chamber on pivot	1 day	100%	Fri 1/1/21	Fri 1/1/21														
52		Install new blower	1 day?	0%	Mon 5/3/21	Mon 5/3/21														
53		Connect turbo	6 days	0%	Mon 3/1/21	Mon 3/8/21														
54		connect exhaust	1 day	0%	Mon 6/7/21	Tue 6/8/21	49													
55		Connect vac electrical	1 day	0%	Mon 6/7/21	Tue 6/8/21	49													
56		Install target in chamber	0.5 days	0%	Mon 6/7/21	Mon 6/7/21	49													
57		Connect piping to target	3 days	0%	Tue 6/8/21	Fri 6/11/21	55													
58		<b>Controls</b>	<b>152 days</b>	<b>2%</b>	<b>Fri 1/1/21</b>	<b>Mon 8/2/21</b>														
59		Remove PREX config	1 day	100%	Fri 1/1/21	Fri 1/1/21														
60		Install equipment in CH	3 days	0%	Mon 6/7/21	Wed 6/9/21														
61		Install equipment in Hall	20 days	0%	Mon 3/1/21	Fri 3/26/21														
62		Update control software	20 days	0%	Tue 7/6/21	Mon 8/2/21														
63		Fill D2 tank	3 days	0%	Thu 4/1/21	Mon 4/5/21														
64		<b>Connect electrical</b>	<b>27 days?</b>	<b>0%</b>	<b>Mon 5/3/21</b>	<b>Tue 6/8/21</b>														
65		Uncoil standard cables and return to trays	1 day?	0%	Tue 6/8/21	Tue 6/8/21	56													
66		Connect pivot cables to beakout boxes in racks	3 days	0%	Mon 5/3/21	Wed 5/5/21														
67		<b>Sting u-tubes</b>	<b>2 days</b>	<b>0%</b>	<b>Tue 7/6/21</b>	<b>Wed 7/7/21</b>														
68		Pump/purge u-tubes and target	1 day	0%	Tue 7/6/21	Tue 7/6/21														
69		Sting u-tubes	1 day	0%	Wed 7/7/21	Wed 7/7/21	68													
70		Alignment	2 days	0%	Thu 7/8/21	Fri 7/9/21	69													
71																				
72		<b>Testing</b>	<b>5 days</b>	<b>0%</b>	<b>Mon 7/12/21</b>	<b>Fri 7/16/21</b>														
73		Leak test assembly in chamber	2 days	0%	Mon 7/12/21	Tue 7/13/21	70													
74		Test Cool down	3 days	0%	Wed 7/14/21	Fri 7/16/21	73													



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