






















































































ID	 	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1			<b>Shutdown START</b>	<b>0 days</b>	<b>Mon 7/12/21</b>	<b>Mon 7/12/21</b>		
2			<b>Shutdown Prepration</b>	<b>6 days</b>	<b>Mon 7/12/21</b>	<b>Mon 7/19/21</b>		
3			Open Shield Wall Plug	1 day	Mon 7/12/21	Mon 7/12/21	1	Riggers
4			Remove Ground Strap	1 day	Mon 7/12/21	Mon 7/12/21	1	STSG
5			Remove BBC and EPD	2 days	Tue 7/13/21	Wed 7/14/21	4	EPD Group,STSG
6			Blowout Coils	1 day	Thu 7/15/21	Thu 7/15/21	5	STSG
7			Remove East Poletip	1 day	Fri 7/16/21	Fri 7/16/21	6	STSG,M Techs
8			Install E Scaffold	1 day	Fri 7/16/21	Fri 7/16/21	6	Carpenters
9			Remove West Poletip	1 day	Mon 7/19/21	Mon 7/19/21	8	M Techs,STGC
10			Install West Scaffolding	1 day	Mon 7/19/21	Mon 7/19/21	8	Carpenters
11			<b>TPC /ITPC Maintenance START</b>	<b>0 days</b>	<b>Fri 7/16/21</b>	<b>Fri 7/16/21</b>	<b>8</b>	<b>STAR Electronics[50%]</b>
12			<b>TOF/eTOF Maintenance</b>	<b>20 days</b>	<b>Wed 7/28/21</b>	<b>Tue 8/24/21</b>		
13			Remove eTOF/TOF Modules	5 days	Wed 7/28/21	Tue 8/3/21		M Techs[200%],STSG[50%]
14			Fix eTOF/TOF Modules	10 days	Wed 8/4/21	Tue 8/17/21	13	ToF Grp,ETOF Group
15			Reinstall eTOF/TOF Modules	5 days	Wed 8/18/21	Tue 8/24/21	14	M Techs[200%],STSG[50%]
16			<b>MTD Maintenance</b>	<b>10 days</b>	<b>Tue 7/20/21</b>	<b>Mon 8/2/21</b>	<b>10</b>	<b>MTD Group</b>
17			<b>Forward Silicon Tracker (FST)</b>	<b>37 days</b>	<b>Tue 7/13/21</b>	<b>Wed 9/1/21</b>		
18			NOVEC Cooling Unit Installation	1 day	Tue 7/13/21	Tue 7/13/21	3	Riggers
19			NOVEC Cooling Hookup to MCW	1 day	Wed 7/14/21	Wed 7/14/21	18	Water Grp
20			Cooling Lines and Manifolds Installation	10 days	Tue 7/20/21	Mon 8/2/21	10	M Techs[200%]
21			Remove West Partition and Test it on East	1 day	Tue 7/20/21	Tue 7/20/21	10	
22			FST Cage Installation and Survey and Mockup	5 days	Wed 7/21/21	Tue 7/27/21	21	STSG
23			FST Detector Assembly and Testing in Clean Room Completed	0 days	Tue 7/27/21	Tue 7/27/21	22	FST Group,STSG
24			FST Detector Installation in STAR	10 days	Tue 8/3/21	Mon 8/16/21	23,20	STSG
25			Testing FST Detectors	5 days	Tue 8/17/21	Mon 8/23/21	24	FST Group
26			Comissioning FST	5 days	Tue 8/24/21	Mon 8/30/21	25	FST Group
27			Test and Install New Partitions	2 days	Tue 8/31/21	Wed 9/1/21	26	STSG
28			<b>Small Strip Thin Gas Chamber (sTGC)</b>	<b>44 days</b>	<b>Mon 8/16/21</b>	<b>Tue 10/19/21</b>		
29			Remove West Scaffolding	1 day	Thu 9/2/21	Thu 9/2/21	27	Carpenters
30			Install West Poletip	1 day	Fri 9/3/21	Fri 9/3/21	29	M Techs,STSG

ID	 Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names
31		Install n- Pentane Gas Panel and Lines	7 days	Tue 9/7/21	Wed 9/15/21	30	STSG
32		New Platform Installation	5 days	Tue 9/7/21	Mon 9/13/21	30	STSG,M Techs[300%]
33		Rail and Support Structure installlation inside Poletip	7 days	Tue 9/14/21	Wed 9/22/21	32	STSG,M Techs[200%]
34		stGCs Assembly Completed	0 days	Mon 8/16/21	Mon 8/16/21	24	
35		stGC Installation in Poletip and Survey	5 days	Thu 9/23/21	Wed 9/29/21	33,34	M Techs[200%],STSG
36		Testing STSG	5 days	Thu 9/30/21	Wed 10/6/21	35	STGC
37		Comissioning STGC and Gas System	5 days	Thu 10/7/21	Thu 10/14/21	36	STGC
38		Remove STSG Platform	3 days	Fri 10/15/21	Tue 10/19/21	37	M Techs[200%]
39		<b>Final Tasks</b>	<b>16 days</b>	<b>Wed 10/20/21</b>	<b>Wed 11/10/21</b>		
40		Global Interlock Testing	5 days	Wed 10/20/21	Tue 10/26/21	38	M Techs[200%]
41		EEMC Maintenance	5 days	Wed 10/27/21	Tue 11/2/21	40	M Techs[200%]
42		Remove East Scaffolding	1 day	Wed 10/27/21	Wed 10/27/21	40	Carpenters
43		Install East Poletip	1 day	Wed 10/27/21	Wed 10/27/21	40	M Techs[200%]
44		TPC/iTPC Maintenance Complete	0 days	Wed 10/27/21	Wed 10/27/21	42	STAR Electronics
45		Fill Magnet with Water (Low Flow)	1 day	Mon 11/1/21	Mon 11/1/21	41FS-2 days	STSG,Water Grp
46		Start Magnet Water (High Flow)	1 day	Tue 11/2/21	Tue 11/2/21	45	STSG,Water Grp
47		Magnet Power Supply Testing and Heat Run	3 days	Wed 11/3/21	Fri 11/5/21	46	Pablo
48		Start flow of Flammable Gases	1 day	Mon 11/8/21	Mon 11/8/21	47	
49		TPC HV Test	1 day	Mon 11/8/21	Mon 11/8/21	47	Alexi
50		Install EPD and Small BBC Tiles	2 days	Mon 11/8/21	Tue 11/9/21	47	EPD Group,STSG
51		Install Shield Wall Plug	1 day	Wed 11/10/21	Wed 11/10/21	50	Riggers
52		<b>Commisioning with Cosmic Rays</b>	5 days	Tue 11/9/21	Mon 11/15/21	48	