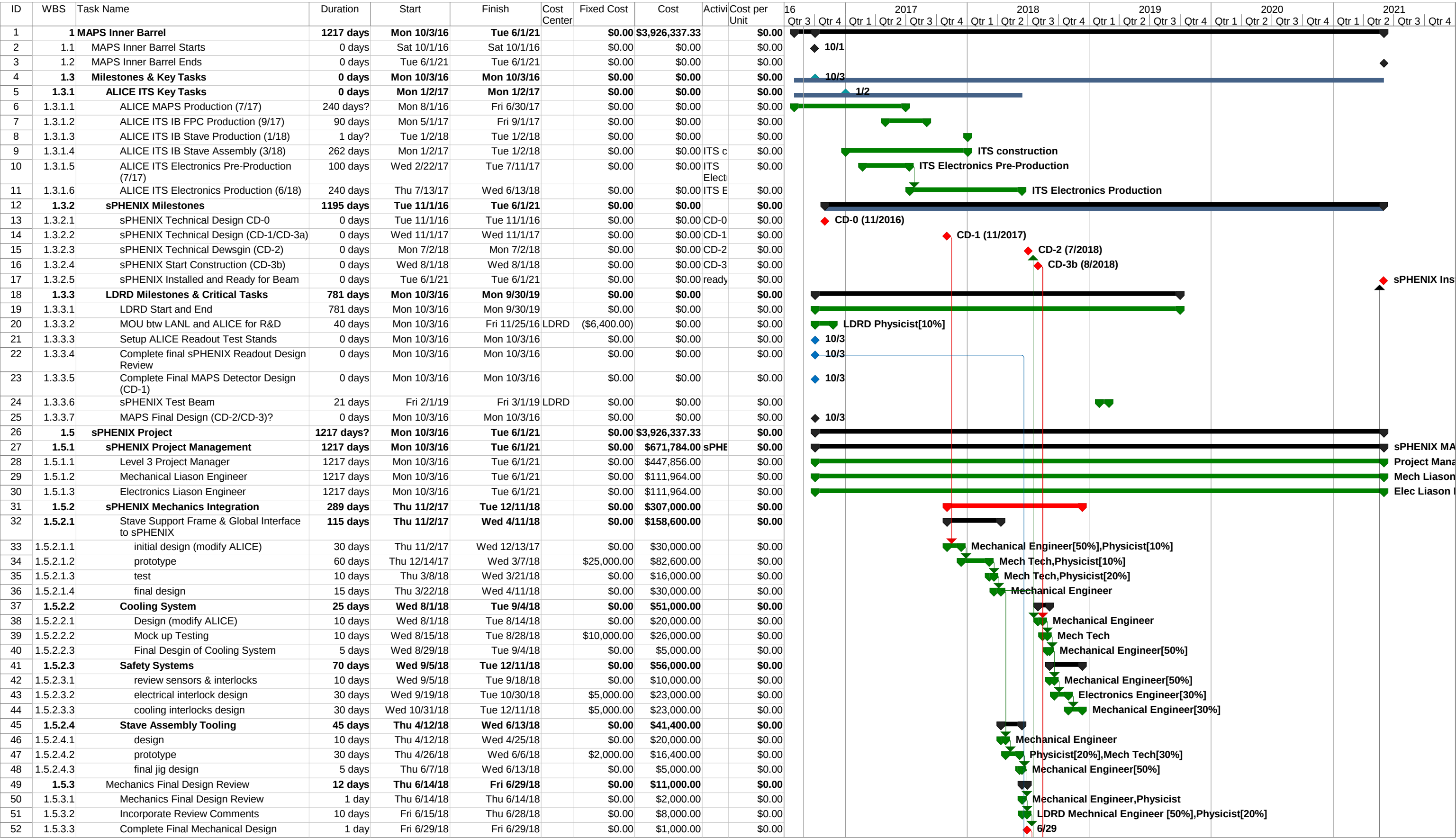




ID	WBS	Task Name	Duration	Start	Finish	Cost Center	Fixed Cost	Cost	Active	Cost per Unit	16	2017				2018				2019				2020				2021			
											Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4			
53	1.5.4	MAPS Inner Barrel Review (CD-2/CD-3)	12 days	Mon 7/2/18	Tue 7/17/18		\$0.00	\$28,000.00		\$0.00																					
54	1.5.4.1	MAPS Final Design Review	1 day	Mon 7/2/18	Mon 7/2/18		\$0.00	\$4,000.00		\$0.00																					
55	1.5.4.2	Incorporate Review Comments	10 days	Tue 7/3/18	Mon 7/16/18		\$0.00	\$20,000.00		\$0.00																					
56	1.5.4.3	Complete Final Design (CD-2)	1 day	Tue 7/17/18	Tue 7/17/18		\$0.00	\$4,000.00		\$0.00																					
57	1.5.5	Productions	534 days?	Thu 6/14/18	Tue 6/30/20		\$0.00	\$2,660,153.33	Prod	\$0.00																					
58	1.5.5.1	Full Pre-Production-Mechnical System Mock Up Test	90 days	Thu 6/14/18	Wed 10/17/18		\$0.00	\$52,800.00		\$0.00																					
59	1.5.5.2	Procurements	180 days?	Wed 8/1/18	Tue 4/9/19		\$0.00	\$2,246,020.00		\$0.00																					
60	1.5.5.2.1	CERN Procuments	180 days?	Wed 8/1/18	Tue 4/9/19		\$0.00	\$1,097,840.00		\$0.00																					
61	5.5.2.1.1	Produce 68 Inner Staves	180 days	Wed 8/1/18	Tue 4/9/19		\$920,000.00	\$1,064,000.00		\$13,530.00																					
62	5.5.2.1.2	Other ITS/CERN items	120 days	Wed 8/1/18	Tue 1/15/19		\$10,000.00	\$13,840.00		\$0.00																					
63	5.5.2.1.3	Travel and Per Diem at CERN	180 days?	Wed 8/1/18	Tue 4/9/19		\$20,000.00	\$20,000.00		\$0.00																					
64	1.5.5.2.2	Procure 68 Readout / FEM Units	100 days	Wed 8/1/18	Tue 12/18/18		\$322,000.00	\$354,000.00		\$4,700.00																					
65	1.5.5.2.3	Procure Optical Links 68	60 days	Thu 8/2/18	Wed 10/24/18		\$42,200.00	\$43,160.00		\$620.00																					
66	1.5.5.2.4	Procure 34 Common Readout Units	100 days	Fri 8/3/18	Thu 12/20/18		\$181,700.00	\$183,300.00		\$5,300.00																					
67	1.5.5.2.5	Procure 100 SamTec Cables	60 days	Mon 8/6/18	Fri 10/26/18		\$27,000.00	\$27,960.00		\$270.00																					
68	1.5.5.2.6	Procure Ancillary Materials (LVPS and cables etc)	100 days	Tue 8/7/18	Mon 12/24/18		\$60,000.00	\$61,600.00		\$0.00																					
69	1.5.5.2.7	Procure Cooling Plant	100 days	Wed 8/1/18	Tue 12/18/18		\$117,000.00	\$118,600.00		\$0.00																					
70	1.5.5.2.8	Procure Assembly Fixtures & Jigs	60 days	Thu 8/2/18	Wed 10/24/18		\$100,000.00	\$100,960.00		\$0.00																					
71	1.5.5.2.9	Procure End Wheels	100 days	Fri 8/3/18	Thu 12/20/18		\$34,000.00	\$35,600.00		\$0.00																					
72	5.5.2.10	Procure Cylindrical Structural Shells	100 days	Mon 8/6/18	Fri 12/21/18		\$11,000.00	\$12,600.00		\$0.00																					
73	5.5.2.11	Procure Detector Half Barrels	100 days	Tue 8/7/18	Mon 12/24/18		\$13,000.00	\$14,600.00		\$0.00																					
74	5.5.2.12	Procure Service Half Barrels	100 days	Wed 8/8/18	Tue 12/25/18		\$120,000.00	\$121,600.00		\$0.00																					
75	5.5.2.13	Procure Detector and Service Half Barrels	100 days	Thu 8/9/18	Wed 12/26/18		\$21,000.00	\$22,600.00		\$0.00																					
76	5.5.2.14	Procure Two Half Support Structures	100 days	Fri 8/10/18	Thu 12/27/18		\$50,000.00	\$51,600.00		\$0.00																					
77	1.5.5.3	Assembly and Testing at BNL	400 days	Wed 12/19/18	Tue 6/30/20		\$0.00	\$361,333.33		\$0.00																					
78	1.5.5.3.1	Test Production FEMS, e-Links, CRU, LV, optical links	60 days	Tue 12/25/18	Mon 3/18/19		\$0.00	\$28,800.00		\$0.00																					
79	1.5.5.3.2	Test Cooling System	20 days	Wed 12/19/18	Tue 1/15/19		\$0.00	\$16,000.00		\$0.00																					
80	1.5.5.3.3	Stave Reciept Inspection	10 days	Wed 4/10/19	Tue 4/23/19		\$0.00	\$1,733.33		\$0.00																					
81	1.5.5.3.4	Individual Stave Readout Test	70 days	Wed 4/24/19	Tue 7/30/19		\$0.00	\$22,400.00		\$0.00																					
82	1.5.5.3.5	Metrology on Stave Assemblies	70 days	Wed 7/31/19	Tue 11/5/19		\$0.00	\$42,000.00		\$0.00																					
83	1.5.5.3.6	Assemble full Ladders into Half support	100 days	Wed 11/6/19	Tue 3/24/20		\$0.00	\$38,400.00		\$0.00																					
84	1.5.5.3.7	Metrology on Final Assembly	10 days	Wed 3/25/20	Tue 4/7/20		\$0.00	\$20,000.00		\$0.00																					
85	1.5.5.3.8	Half detector Assembly Readout and Cooling Test	60 days	Wed 4/8/20	Tue 6/30/20		\$0.00	\$192,000.00		\$0.00																					
86	1.5.6	Installation	131 days	Wed 7/1/20	Wed 12/30/20		\$0.00	\$248,400.00		\$0.00																					
87	1.5.6.1	Installation Prep	10 days	Wed 7/1/20	Tue 7/14/20		\$0.00	\$16,000.00		\$0.00																					
88	1.5.6.2	Installation Review	1 day	Wed 7/15/20	Wed 7/15/20		\$0.00	\$2,000.00		\$0.00																					
89	1.5.6.3	Installation	60 days	Thu 7/16/20	Wed 10/7/20		\$0.00	\$192,000.00		\$0.00																					
90	1.5.6.4	Commissioning	60 days	Thu 10/8/20	Wed 12/30/20		\$0.00	\$38,400.00		\$0.00																					
91	1.5.7	Ready for beam	0 days	Wed 12/30/20	Wed 12/30/20		\$0.00	\$0.00		\$0.00																					