

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	January 2018	February 2018	March 2018	April 2018	May 2018
1		<b>Overhead</b>	<b>262 days</b>	<b>Mon 1/1/18</b>	<b>Tue 1/1/19</b>							
7		<b>Experiments</b>	<b>43 days</b>	<b>Mon 2/26/18</b>	<b>Wed 4/25/18</b>							
14		<b>NEW Rotating Target System</b>	<b>85 days</b>	<b>Mon 1/1/18</b>	<b>Fri 4/27/18</b>							
15		Horiz. Wobble ENG AGFA	20 days	Mon 2/26/18	Fri 3/23/18		DiGiovine[15%]					
16		Horiz. Wobble Fab	2 wks	Mon 3/26/18	Fri 4/6/18	15	OUT					
17		GammaSphere Rotating Target Install, Align	5 days	Mon 4/23/18	Fri 4/27/18	16	Rohrer[20%]					
18		<b>Encoder Interface System</b>	<b>35 days</b>	<b>Mon 1/1/18</b>	<b>Fri 2/16/18</b>							
19		PCB Fabrication	2 wks	Mon 1/1/18	Fri 1/12/18		OUT					
20		Box/PCB Assembly	2 days	Mon 1/15/18	Tue 1/16/18	19	E. Tech					
21		Develop & Test Software/Firmware	4 wks	Mon 1/22/18	Fri 2/16/18	20	Anderson[50%]					
22		Paddle Board ENG	15 days	Mon 1/1/18	Fri 1/19/18		Anderson[20%]					
23		Paddle Board PCB Fab	2.2 wks	Mon 1/22/18	Mon 2/5/18	22	OUT					
24		Paddle Board Assembly	2 days	Tue 2/6/18	Wed 2/7/18	23	E. Tech					
25		Fabricate Speed Control	10 days	Mon 1/1/18	Fri 1/12/18		DiGiovine[20%]					
26		Fabricate Cabling	2 days	Mon 1/29/18	Tue 1/30/18		E. Tech					
27		<b>Mechanical Infrastructure</b>	<b>35 days</b>	<b>Mon 1/1/18</b>	<b>Fri 2/16/18</b>							
28		Final Assembly, Fitting	10 days	Mon 1/15/18	Fri 1/26/18		DiGiovine[20%]					
29		Design Feedthroughs	5 wks	Mon 1/1/18	Fri 2/2/18		DiGiovine[20%]					
30		Fabricate Feedthroughs	2 wks	Mon 2/5/18	Fri 2/16/18	29	OUT					
31		<b>Installation and Testing</b>	<b>5 days</b>	<b>Mon 2/19/18</b>	<b>Fri 2/23/18</b>	<b>27,18</b>						
32		{Gretina} Installation of Rot Target	5 days	Mon 2/19/18	Fri 2/23/18		Rohrer[20%]					
33		Installation of encoder interface, position calibration	5 days	Mon 2/19/18	Fri 2/23/18	32SS	Anderson[20%]					
34		<b>AGFA Differential Pumping</b>	<b>45 days</b>	<b>Mon 2/5/18</b>	<b>Fri 4/6/18</b>							
35		Stage 1 Baffle Install, Align	10 days	Mon 2/5/18	Fri 2/16/18		Rohrer[15%]					
36		Stage 1 H.C. Pump Line	10 days	Mon 2/19/18	Fri 3/2/18	35	Rohrer[15%]					
37		Beamline Turbo Install	25 days	Mon 3/5/18	Fri 4/6/18	36	Rohrer[20%]					
38		<b>AGFA Repairs</b>	<b>90 days</b>	<b>Mon 1/1/18</b>	<b>Fri 5/4/18</b>							
39		Patch Panel Rerouting	5 days	Mon 3/19/18	Fri 3/23/18		Rohrer[20%]					
40		Power Supply LOTO, test	40 days	Mon 1/1/18	Fri 3/2/18		Rohrer[5%],Nardi[5%]					
41		TAC2 Buffer Flush	10 wks	Mon 2/26/18	Fri 5/4/18		Anderson[10%]					
42		Focal Plane PPAC Refurb	10 days	Mon 3/12/18	Fri 3/23/18		DiGiovine[20%]					
43		<b>FMA Repairs</b>	<b>40 days</b>	<b>Mon 1/1/18</b>	<b>Fri 2/23/18</b>							
44		Quadrupole Shielding	33.33 days	Mon 1/1/18	Thu 2/15/18		Rohrer[15%]					
45		FMA Cryopump Compressor	10 days	Mon 1/1/18	Fri 1/12/18		Rohrer[10%]					
46		Quadrupole, comp: DEEI	5 days	Mon 2/19/18	Fri 2/23/18	44,45	Nardi[20%]					
47		Focal Plane PPAC Refurb	10 days	Mon 2/12/18	Fri 2/23/18		DiGiovine[20%]					
48		Si Tunnel Wirebonding	10 days	Mon 1/29/18	Fri 2/9/18		DiGiovine[20%]					
49		<b>GammaSphere</b>	<b>100 days</b>	<b>Mon 1/1/18</b>	<b>Fri 5/18/18</b>							
50		TAC2	8 wks	Mon 2/26/18	Fri 4/20/18		Anderson[25%]					
51		Quad Support and S1-S2 Design and Install	25 days	Mon 1/22/18	Fri 2/23/18		DiGiovine[20%]					
52		S. Hemi Rotation Repair (includes 2 days for NFPA)	7 wks	Mon 1/8/18	Fri 2/23/18		Nardi[15%]					
53		New LN2 Valves DEEI	10 days	Mon 2/12/18	Fri 2/23/18		Nardi[10%]					
54		LN2 Cable Plant Design	20 days	Mon 3/12/18	Fri 4/6/18		Nardi[15%]					
55		LN2 Cable Plant Fab	3 wks	Mon 4/9/18	Fri 4/27/18	54	OUT					
56		LN2 Cable Plant Install	10 days	Mon 4/30/18	Fri 5/11/18	55	Nardi[20%]					
57		Annealing Stations	5 wks	Mon 1/15/18	Fri 2/16/18		Rohrer[20%]					
58		VXI-Serial Project Concept	15 days	Mon 2/19/18	Fri 3/9/18		Anderson[20%]					
59		Detector Maint Setup	20 wks	Mon 1/1/18	Fri 5/18/18		Anderson[5%]					
60		HEAVY MET Mount Repairs	33.33 days	Mon 1/15/18	Thu 3/1/18		Rohrer[15%]					
61		<b>Spectrograph</b>	<b>80 days</b>	<b>Mon 1/15/18</b>	<b>Fri 5/4/18</b>							
62		Magnet Power Supply Repairs	10 wks	Mon 2/26/18	Fri 5/4/18		Nardi[30%]					
63		Pump Replacement	30 days	Mon 3/26/18	Fri 5/4/18		Rohrer[10%]					
64		MUSIC US/DS Bypass	10 days	Mon 1/15/18	Fri 1/26/18		DiGiovine[10%]					
65		MUSIC PPAC System Test	4 wks	Mon 1/29/18	Fri 2/23/18	64	DiGiovine[25%]					
66		Trigger Boards x4	10 wks	Mon 1/22/18	Fri 3/30/18		Anderson[10%]					
67		<b>HELIOS</b>	<b>72 days</b>	<b>Mon 1/1/18</b>	<b>Tue 4/10/18</b>							
68		Firmware TAC2 EDM	10 days	Mon 3/26/18	Fri 4/6/18		Anderson[20%]					
69		Si PA Power PCB Fab	2 wks	Mon 1/1/18	Fri 1/12/18		OUT					
70		Si PA Power assembly	2 days	Mon 1/22/18	Tue 1/23/18	69	E. Tech					
71		Si PA Chassis Layout	20 days	Mon 2/26/18	Fri 3/23/18		DiGiovine[10%]					
72		Si PA chassis Fabricate	2 wks	Mon 3/26/18	Fri 4/6/18	71	OUT					
73		Si PA chassis assembly	2 days	Mon 4/9/18	Tue 4/10/18	72	E. Tech					
74		ISS Array Interface Design	15 days	Mon 1/1/18	Fri 1/19/18		Levand[20%]					
75		ISS Feedthrough Design	15 days	Mon 1/1/18	Fri 1/19/18		Levand[20%]					
76		ISS Fabrication	3 wks	Mon 1/22/18	Fri 2/9/18	74,75	OUT					
77		Test fit, package for shipping	5 days	Mon 2/12/18	Fri 2/16/18	76	Levand[20%]					
78		ISS Full Array Mount Design	20 days	Mon 2/12/18	Fri 3/9/18		Levand[20%]					
79		<b>GRETINA</b>	<b>91.67 days</b>	<b>Mon 1/1/18</b>	<b>Tue 5/8/18</b>							
80		Target Ladder Upgrade ENG	15 days	Mon 1/8/18	Fri 1/26/18		Levand[20%]					
81		Target Ladder Fab	3 wks	Mon 1/29/18	Fri 2/16/18	80	OUT					
82		Target Ladder Install	5 days	Mon 2/26/18	Fri 3/2/18	81	Rohrer[20%]					
83		Berkley F.W. Install, Debug	15 days	Mon 1/1/18	Fri 1/19/18		Anderson[20%]					
84		FET & Preamp Repair, Test	15 days	Mon 1/1/18	Fri 1/19/18		Anderson[20%]					
85		CHICO DEEI	4 wks	Mon 1/8/18	Fri 2/2/18		Nardi[25%]					
86		CHICO DEEI Repairs	60 days	Mon 2/12/18	Fri 5/4/18		Nardi[20%]					
87		CHICO FMA QUAD Mount	3 wks	Mon 1/22/18	Fri 2/9/18		Levand[33%]					
88		CHICO Aux Det Mount	15 days	Mon 4/16/18	Fri 5/4/18		Levand[13%]					
89		CHICO Mount FAB	3 wks	Mon 2/12/18	Fri 3/2/18	87	OUT					
90		CHICO Install - Quad LOTO	3.33 wks	Mon 4/16/18	Tue 5/8/18	89	Rohrer[30%]					
91		Store Old Quad, space to store new quad	30 days	Mon 3/5/18	Fri 4/13/18		Rohrer[5%]					
92		CHICO Gas Foils	4 wks	Mon 2/26/18	Fri 3/23/18		DiGiovine[25%]					
93		CHICO Gas Sys. Test, Repair	30 days	Mon 1/1/18	Fri 2/9/18		DiGiovine[10%]					
94		CHICO - DET 3D arrange	5 days	Mon 1/1/18	Fri 1/5/18		Levand[20%]					
95		<b>160(g,a)12C</b>	<b>80 days</b>	<b>Mon 1/1/18</b>	<b>Fri 4/20/18</b>							
96		DAQ Signal cond & route	40 days	Mon 1/1/18	Fri 2/23/18		DiGiovine[5%]					
97		Shutdown, crating	10 wks	Mon 1/8/18	Fri 3/16/18		DiGiovine[10%]					
98		Document, PID, Procedures	40 days	Mon 1/1/18	Fri 2/23/18		DiGiovine[5%]					
99		JLAB Campaign	4 wks	Mon 3/26/18	Fri 4/20/18		DiGiovine					
100		<b>CARIBU L.E. Area</b>	<b>70 days</b>	<b>Mon 1/15/18</b>	<b>Fri 4/20/18</b>							
101		Utilities	60 days	Mon 1/15/18	Fri 4/6/18		Rohrer[5%]					
102		<b>ORNL Experimental Setup</b>	<b>40 days</b>	<b>Mon 2/26/18</b>	<b>Fri 4/20/18</b>							
103		Floor Prep	20 days	Mon 2/26/18	Fri 3/23/18		Rohrer[10%]					
104		Logistics, move, setup	20 days	Mon 3/26/18	Fri 4/20/18		Rohrer[10%]					
105		Alignment	40 days	Mon 2/26/18	Fri 4/20/18		Rohrer[5%]					
106		<b>MEP</b>	<b>25 days</b>	<b>Mon 2/5/18</b>	<b>Fri 3/9/18</b>							
107		MOT Control Chassis	5 wks	Mon 2/5/18	Fri 3/9/18		Nardi[20%]					
108		<b>Production Targets</b>	<b>60 days</b>	<b>Mon 2/19/18</b>	<b>Fri 5/11/18</b>							
109		Forced Convection Gas	12 wks	Mon 2/19/18	Fri 5/11/18		Levand[25%]					
110		<b>N=126</b>	<b>160 days</b>	<b>Mon 2/5/18</b>	<b>Fri 9/14/18</b>							
111		System layout and design	32 wks	Mon 2/5/18	Fri 9/14/18		Levand[25%]					
112		<b>ATLAS Vacuum Chassis Repairs</b>	<b>25 days</b>	<b>Mon 1/8/18</b>	<b>Fri 2/9/18</b>							
113		Finalize switchyard and ATLAS tunnel chassis	5 wks	Mon 1/8/18	Fri 2/9/18		Nardi[20%]					
114		<b>ATSCAT/AREA-II Experimental Reconfiguration</b>	<b>35 days</b>	<b>Mon 3/5/18</b>	<b>Fri 4/20/18</b>							
115		Reconfiguration for Exp. 1740 Febbarao	10 days	Mon 3/5/18	Fri 3/16/18		Rohrer[20%]					
116		Reconfiguration for Exp. 1708 Nolen	20 days	Mon 3/26/18	Fri 4/20/18		Rohrer[20%]					

Project: ETS Group Work  
Date: Tue 2/6/18

Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only			