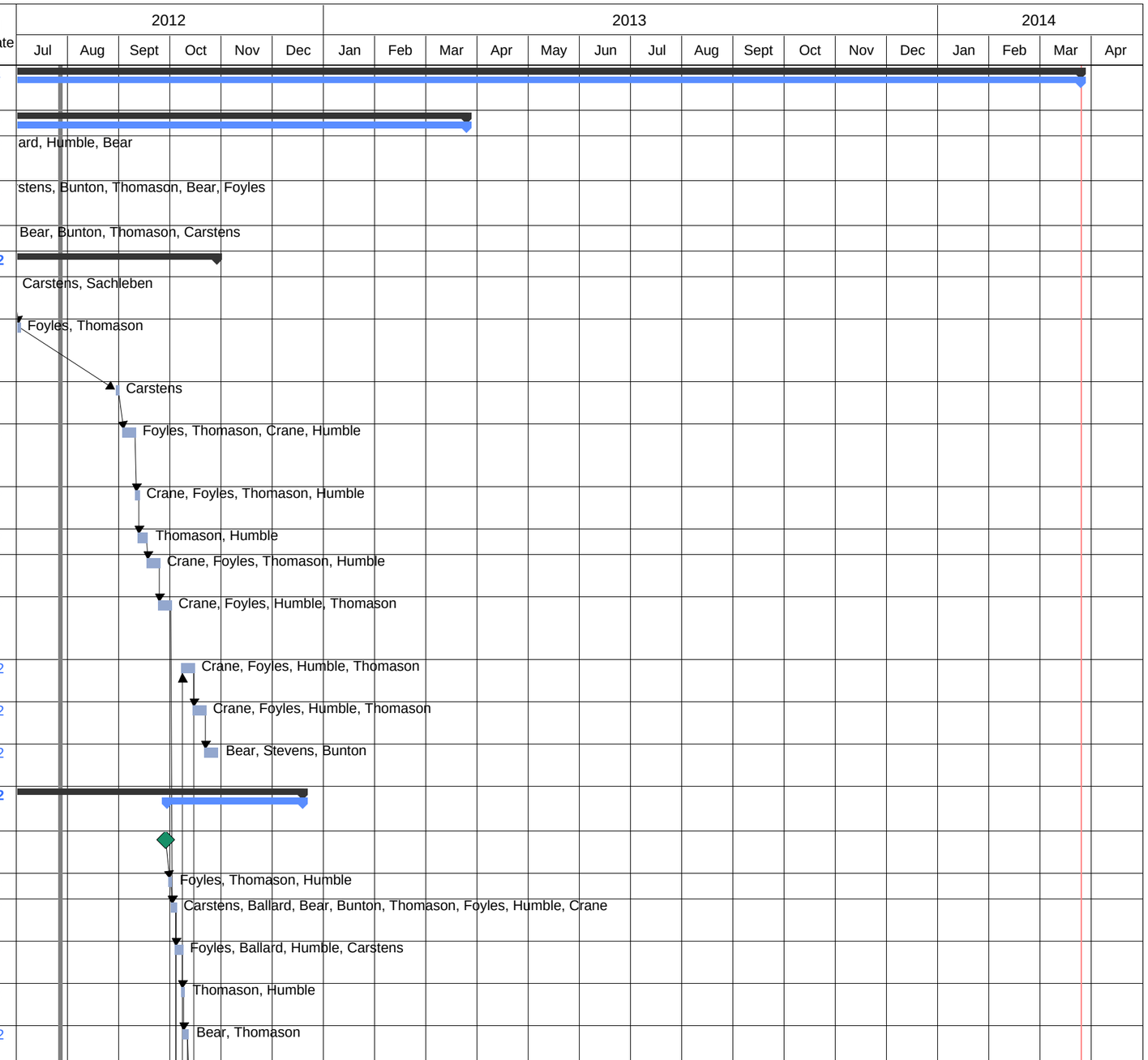
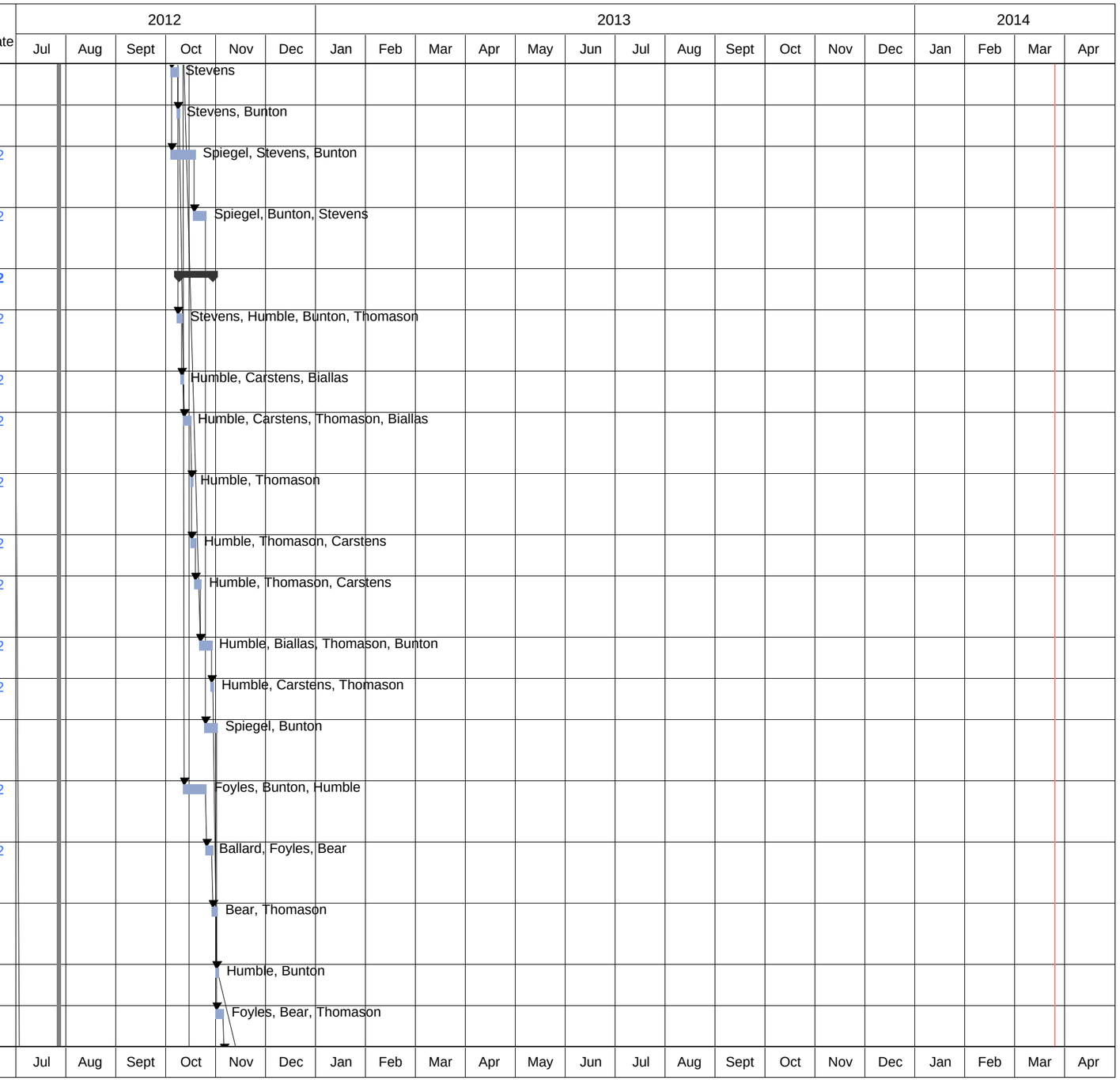
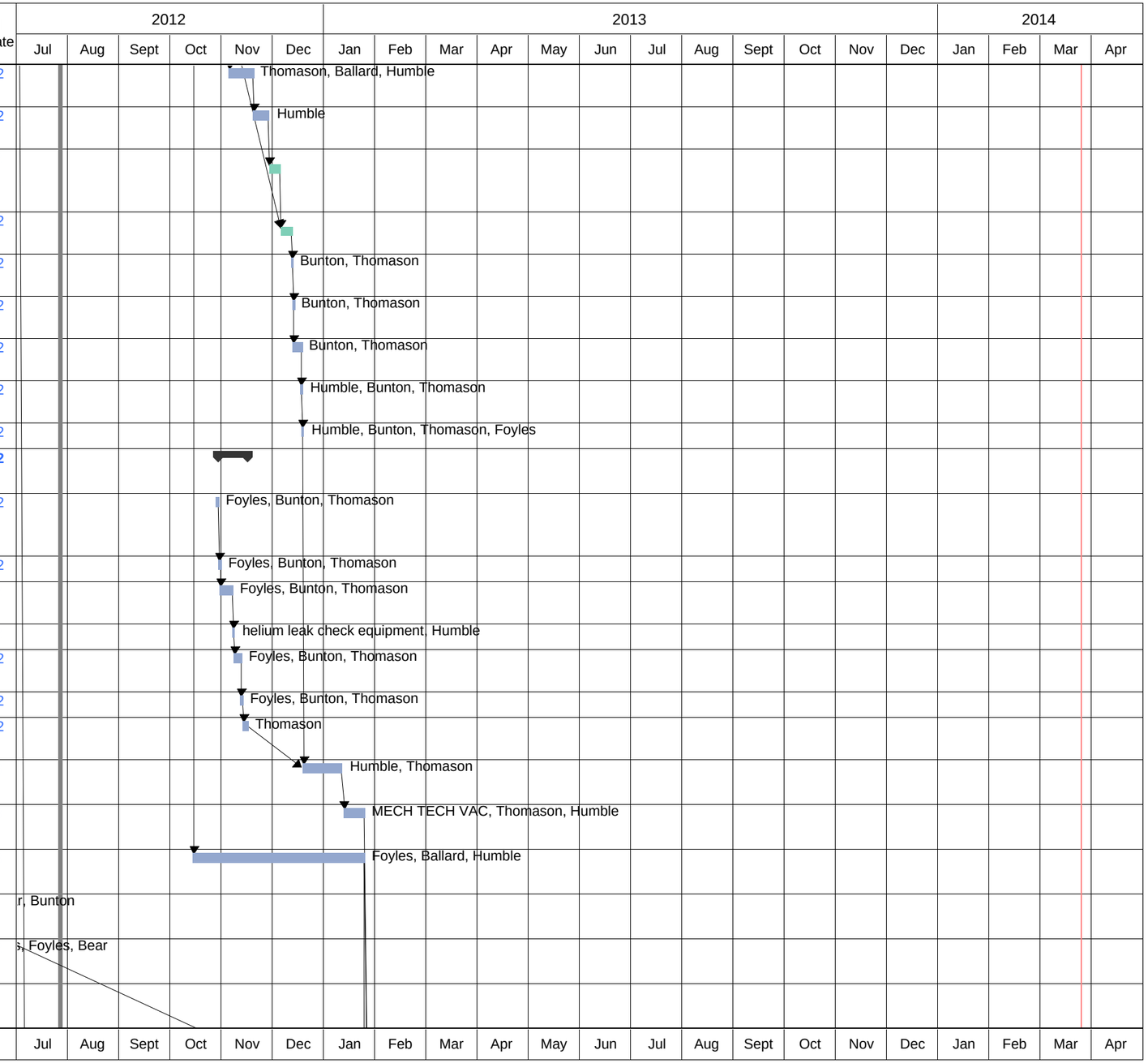
	Name	Duration (Work Days)	Start Date	Finish Date	Revised Duration (Work Days)	Revised Start Date	Revised Finish Date
1	Hall D Tasks during Long AD	**182.00**	**9/13/10**	**3/25/14**	**96.80**	**5/1/12**	**3/25/14**
2	Install Solenoid Magnet	**129.80**	**9/13/10**	**3/25/13**	**44.60**	**5/1/12**	**3/25/13**
3	*Install solenoid yoke 1 baffle axial supports*	2.00	5/1/12	5/14/12	2.00	5/1/12	5/14/12
4	*Install cladding and shims*	2.00	5/31/12	6/13/12	2.00	5/31/12	6/13/12
5	*Paint solenoid*	2.00	6/14/12	6/27/12	2.00	6/14/12	6/27/12
6	*Install solenoid platform*	**17.10**	**6/28/12**	**10/29/12**	**17.10**	**6/28/12**	**10/29/12**
7	Mark floor for vertical beam locations	0.40	6/28/12	6/29/12	0.40	6/28/12	6/29/12
8	Drill floor at marked vertical beam locations and install anchors	0.40	7/2/12	7/3/12	0.40	7/2/12	7/3/12
9	Receive Solenoid Platform	0.20	8/31/12	8/31/12	0.20	8/31/12	8/31/12
10	Install Vertical beams and main cross members	1.00	9/4/12	9/10/12	1.00	9/4/12	9/10/12
11	Adjust Vertical beam locations in XY&Z	0.40	9/11/12	9/12/12	0.40	9/11/12	9/12/12
12	Grount in Vertical beams	0.60	9/13/12	9/17/12	0.60	9/13/12	9/17/12
13	Install South platform and cross stiffeners	1.00	9/18/12	9/24/12	1.00	9/18/12	9/24/12
14	Install Cryo service module sub platform and stairs	1.00	9/25/12	10/1/12	1.00	9/25/12	10/1/12
15	Install upper plaltform and stairs	1.00	10/8/12	10/15/12	1.00	10/8/12	10/15/12
16	Install all handrails and kick plates	1.00	10/15/12	10/22/12	1.00	10/15/12	10/22/12
17	Bond platform members to ground	1.00	10/22/12	10/29/12	1.00	10/22/12	10/29/12
18	*Install/Connect Cryo Can to Solenoid*	**117.60**	**9/13/10**	**12/19/12**	**11.20**	**9/28/12**	**12/19/12**
19	Cryo Can Fabrication complete	0.00	9/28/12	9/28/12	0.00	9/28/12	9/28/12
20	Drop chimney bellows	0.10	10/1/12	10/1/12	0.10	10/1/12	10/1/12
21	Crane can onto platform and bolt up	0.50	10/2/12	10/4/12	0.50	10/2/12	10/4/12
22	Adjust chimney heights to match cryocan	0.40	10/4/12	10/8/12	0.40	10/4/12	10/8/12
23	Install 30 layers MLI in bottom of chimney	0.20	10/8/12	10/9/12	0.20	10/8/12	10/9/12
24	Modify/Install bottom portion of 80k shield	0.50	10/9/12	10/11/12	0.50	10/9/12	10/11/12



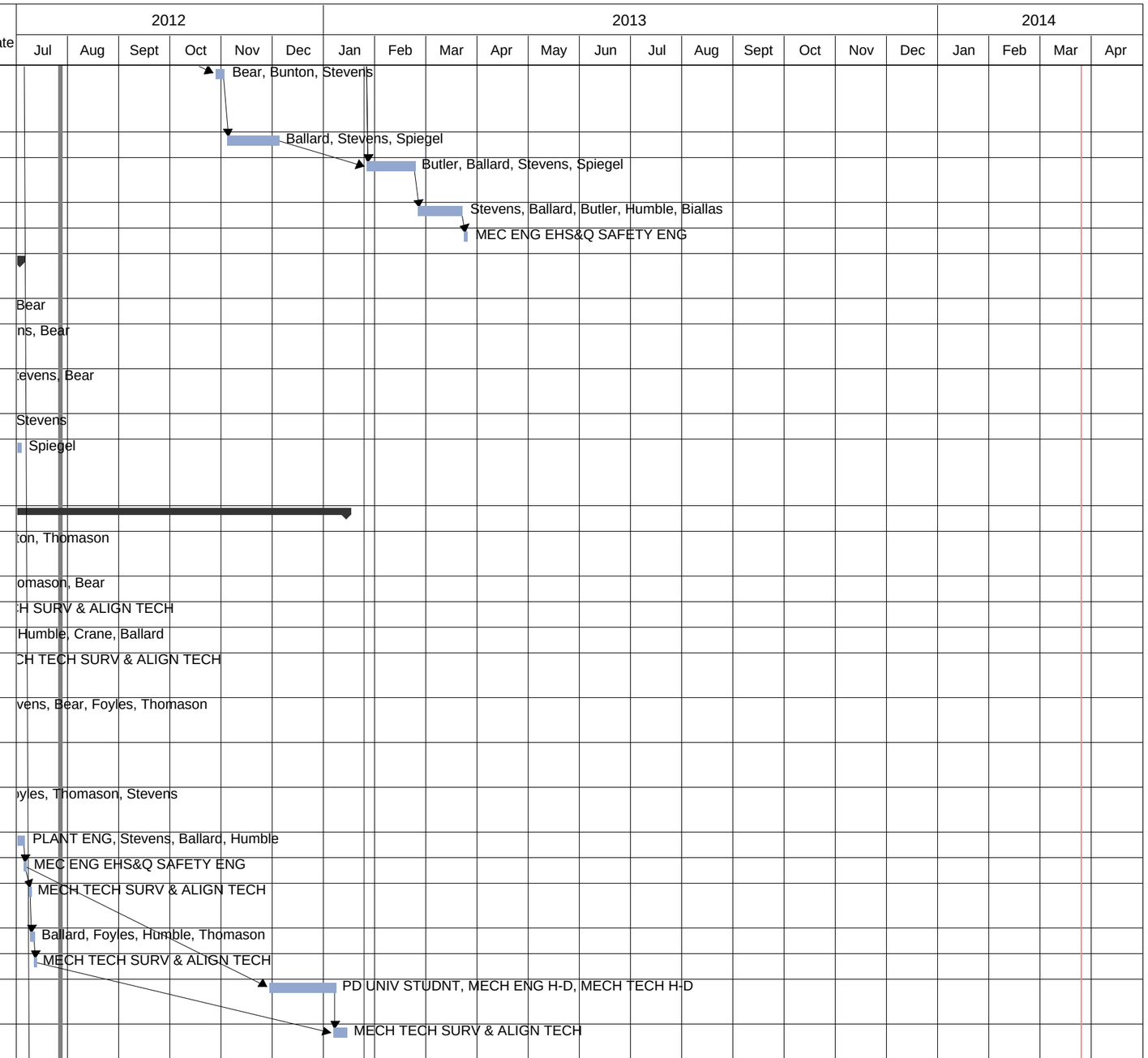
	Name	Duration (Work Days)	Start Date	Finish Date	Revised Duration (Work Days)	Revised Start Date	Revised Finish Date
25	Install/Test sensors on current leads	0.40	10/4/12	10/8/12	0.40	10/4/12	10/8/12
26	Install Vapor cooled Current leads	0.20	10/8/12	10/9/12	0.20	10/8/12	10/9/12
27	Fish Sensor cabling/harnesses through Cryo Can	2.00	10/4/12	10/18/12	2.00	10/4/12	10/18/12
28	Connect Cabling/harnesses to feed-thru connectors/Test	1.00	10/18/12	10/25/12	1.00	10/18/12	10/25/12
29	Install power leads in cryocan	**3.20**	**10/8/12**	**10/30/12**	**3.20**	**10/8/12**	**10/30/12**
30	*Fish current leads and DLO cable through to each coil*	0.50	10/8/12	10/10/12	0.50	10/8/12	10/10/12
31	*Cut DLO cable to length and install lugs*	0.20	10/11/12	10/11/12	0.20	10/11/12	10/11/12
32	*Connect DLO and voltage tap wire to power leads*	0.60	10/12/12	10/16/12	0.60	10/12/12	10/16/12
33	*Preposition teflon tubing over power leads*	0.10	10/17/12	10/17/12	0.10	10/17/12	10/17/12
34	*Tin and cut current leads to length*	0.40	10/17/12	10/19/12	0.40	10/17/12	10/19/12
35	*Bolt on one end of Helium bellows with Cu gaskets*	0.20	10/19/12	10/22/12	0.20	10/19/12	10/22/12
36	*Connect current leads to input leads*	1.00	10/22/12	10/29/12	1.00	10/22/12	10/29/12
37	*Slip teflon tubing into position and secure*	0.20	10/29/12	10/30/12	0.20	10/29/12	10/30/12
38	Connect voltage tap wiring inside Helium return bellows	1.00	10/25/12	11/1/12	1.00	10/25/12	11/1/12
39	Fit-up and weld helium and nitrogen supply/return lines	2.00	10/12/12	10/25/12	2.00	10/12/12	10/25/12
40	Leak check/pressure test Helium/Nitrogen lines on bench	0.40	10/26/12	10/29/12	0.40	10/26/12	10/29/12
41	Insulate He supply and LN2 supply/return lines w/15 layers MLI.	0.50	10/30/12	11/1/12	0.50	10/30/12	11/1/12
42	Connect He return bellows	0.20	11/1/12	11/2/12	0.20	11/1/12	11/2/12
43	Connect He supply and LN2 supply/return lines	0.50	11/1/12	11/5/12	0.50	11/1/12	11/5/12



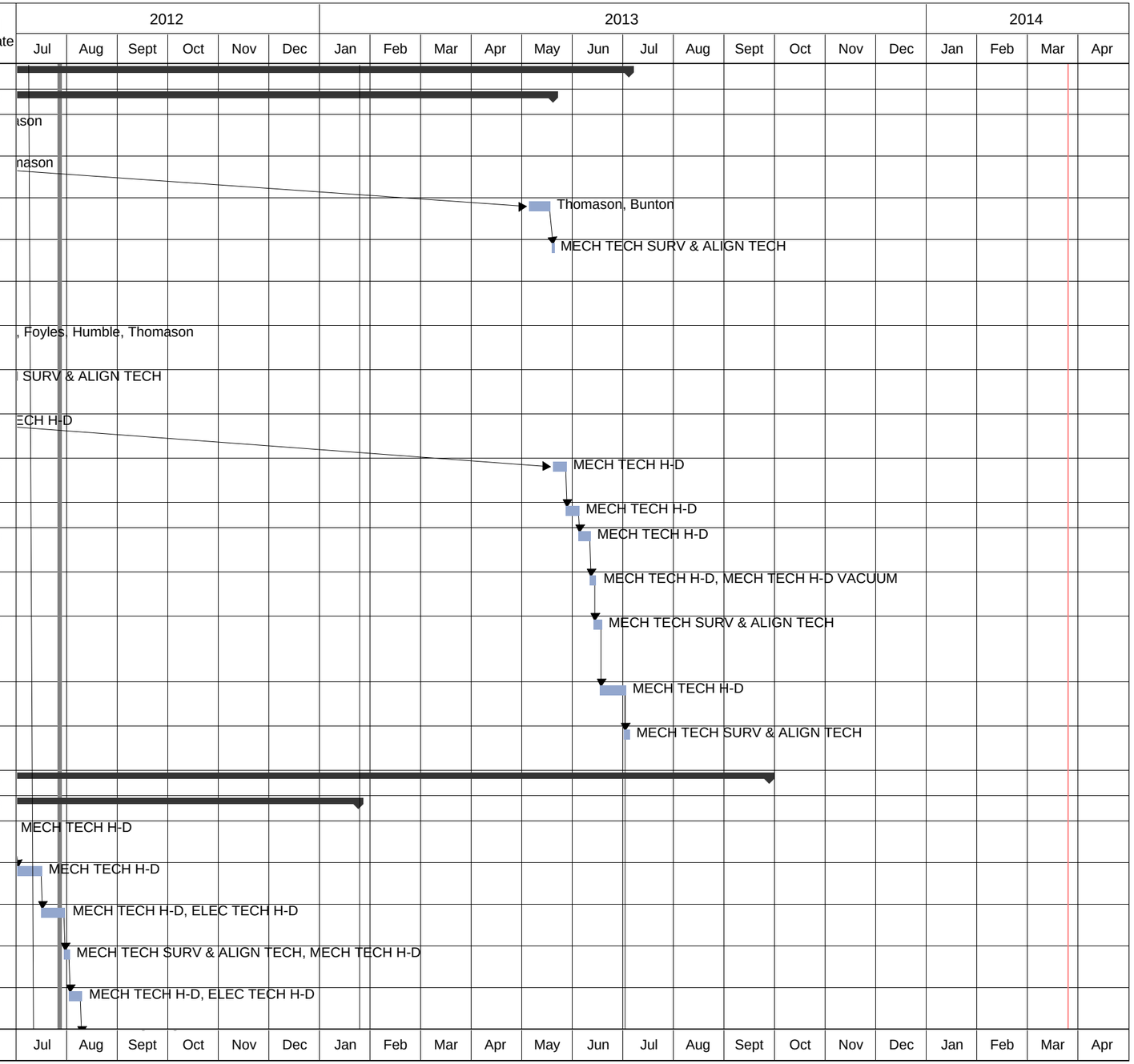
	Name	Duration (Work Days)	Start Date	Finish Date	Revised Duration (Work Days)	Revised Start Date	Revised Finish Date
44	Install He return reliefs and safety valves	2.00	11/6/12	11/19/12	2.00	11/6/12	11/19/12
45	Pump down helium circuit for leak checking	1.00	11/20/12	11/28/12	1.00	11/20/12	11/28/12
46	Leak check Helium and nitrogen bellows connections	0.40	9/13/10	9/14/10	1.00	11/29/12	12/5/12
47	Complete the insulation with 15 layers of MLI.	0.60	9/14/10	9/16/10	1.00	12/6/12	12/12/12
48	Install 80K shield clam shell halves	0.20	12/13/12	12/13/12	0.20	12/13/12	12/13/12
49	Heat station sensor wiring to 80K shield	0.10	12/14/12	12/14/12	0.10	12/14/12	12/14/12
50	Insulate 80 K shield w/30 layers MLI	0.40	12/14/12	12/18/12	0.40	12/14/12	12/18/12
51	Clean, inspect and install Chimney o-rings	0.10	12/18/12	12/18/12	0.10	12/18/12	12/18/12
52	Bolt up chimneys	0.20	12/19/12	12/19/12	0.20	12/19/12	12/19/12
53	*Install insulation vacuum pumping system*	**2.90**	**10/29/12**	**11/16/12**	**2.90**	**10/29/12**	**11/16/12**
54	Install passive relief plates and chimney stacks	0.40	10/29/12	10/30/12	0.40	10/29/12	10/30/12
55	Install gate valves	0.20	10/31/12	10/31/12	0.20	10/31/12	10/31/12
56	Fabricate Insulating vacuum manifold	1.00	11/1/12	11/7/12	1.00	11/1/12	11/7/12
57	Leak check mainfold	0.20	11/8/12	11/8/12	0.20	11/8/12	11/8/12
58	Install manifold and piping	0.40	11/9/12	11/12/12	0.40	11/9/12	11/12/12
59	Install vacuum pumps	0.20	11/13/12	11/13/12	0.20	11/13/12	11/13/12
60	Install vacuum gauging and instrumentation	0.50	11/14/12	11/16/12	0.50	11/14/12	11/16/12
61	*Pump on insulation vacuum*	2.00	12/20/12	1/11/13	2.00	12/20/12	1/11/13
62	*Leak check Solenoid and magnet*	2.00	1/14/13	1/25/13	2.00	1/14/13	1/25/13
63	*Install/commission Cryo lines from Cryo building*	13.00	10/15/12	1/25/13	13.00	10/15/12	1/25/13
64	*Install Solenoid Power supply*	1.00	5/1/12	5/7/12	1.00	5/1/12	5/7/12
65	*Install/connect LCW lines to power supply*	1.00	5/22/12	5/29/12	1.00	5/22/12	5/29/12
66	*Mount switch for power supply and connect*	1.00	5/1/12	5/7/12	1.00	5/1/12	5/7/12



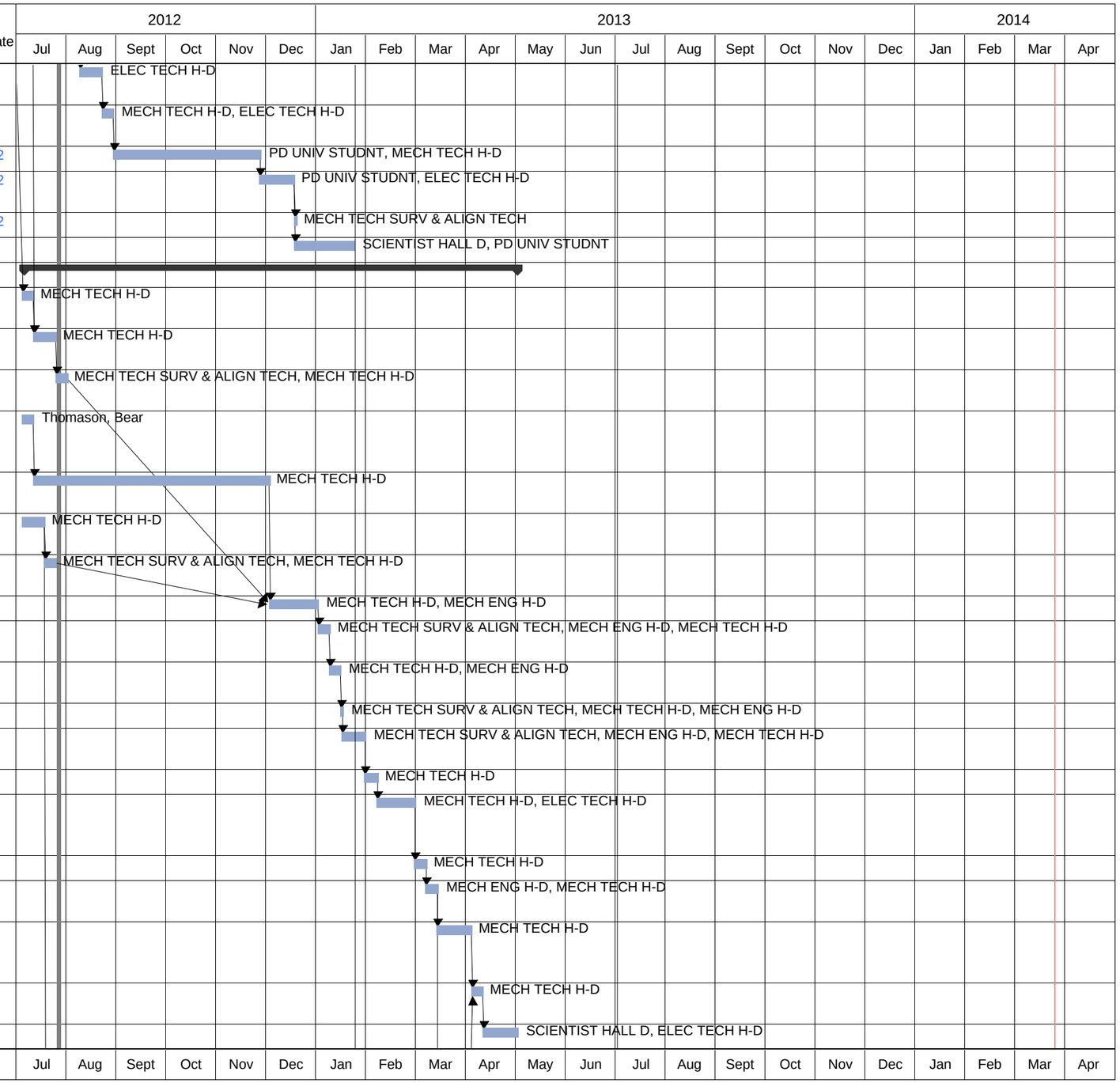
	Name	Duration (Work Days)	Start Date	Finish Date	Revised Duration (Work Days)	Revised Start Date	Revised Finish Date
67	*Install cable tray for Solenoid leads and sensor cables*	1.00	10/29/12	11/2/12	1.00	10/29/12	11/2/12
68	*Upgrade solenoid controls*	4.00	11/5/12	12/4/12	4.00	11/5/12	12/4/12
69	*Cool down solenoid and test controls*	4.00	1/28/13	2/22/13	4.00	1/28/13	2/22/13
70	*Commissioning*	4.00	2/25/13	3/22/13	4.00	2/25/13	3/22/13
71	*Fringe field survey*	0.20	3/25/13	3/25/13	0.20	3/25/13	3/25/13
72	Solenoid Field pick-up Coils	**7.00**	**5/15/12**	**7/3/12**	**7.00**	**5/15/12**	**7/3/12**
73	*Fabricate pick-up coils*	1.00	5/15/12	5/21/12	1.00	5/15/12	5/21/12
74	*Install pick-up coils inside solenoid bore*	2.00	5/22/12	6/5/12	2.00	5/22/12	6/5/12
75	*Fabricate pick-up coil junction box and mount*	2.00	6/6/12	6/19/12	2.00	6/6/12	6/19/12
76	*Wire coils to junction box*	1.00	6/20/12	6/26/12	1.00	6/20/12	6/26/12
77	*Fabricate cable from junction box to XXX? and connect*	1.00	6/27/12	7/3/12	1.00	6/27/12	7/3/12
78	PS Magnet	**34.60**	**5/1/12**	**1/14/13**	**34.60**	**5/1/12**	**1/14/13**
79	*Install additional steel to PS mag pole*	1.00	5/1/12	5/7/12	1.00	5/1/12	5/7/12
80	*Reassemble PS magnet*	1.00	5/8/12	5/14/12	1.00	5/8/12	5/14/12
81	*Fiducialize PS magnet*	0.20	5/15/12	5/15/12	0.20	5/15/12	5/15/12
82	*Install PS magnet*	2.00	5/22/12	6/5/12	2.00	5/22/12	6/5/12
83	*PS magnet initial alignment*	1.00	6/6/12	6/12/12	1.00	6/6/12	6/12/12
84	*Position Magnet Power supply*	0.20	6/13/12	6/13/12	0.20	6/13/12	6/13/12
85	*Replace Klicksons and wiring*	1.00	6/14/12	6/20/12	1.00	6/14/12	6/20/12
86	*Run and Connect LCW lines*	0.60	6/14/12	6/18/12	0.60	6/14/12	6/18/12
87	*Test Magnet and controls*	2.00	6/21/12	7/5/12	2.00	6/21/12	7/5/12
88	*Fringe field survey*	0.20	7/6/12	7/6/12	0.20	7/6/12	7/6/12
89	*Fiducialize Vacuum boxes*	0.20	7/9/12	7/9/12	0.20	7/9/12	7/9/12
90	*Install Vacuum boxes*	0.40	7/10/12	7/11/12	0.40	7/10/12	7/11/12
91	*Perform initial alignment*	0.20	7/12/12	7/12/12	0.20	7/12/12	7/12/12
92	*Install PS detector package*	4.00	11/30/12	1/7/13	4.00	11/30/12	1/7/13
93	*Survey and align detectors*	1.00	1/8/13	1/14/13	1.00	1/8/13	1/14/13



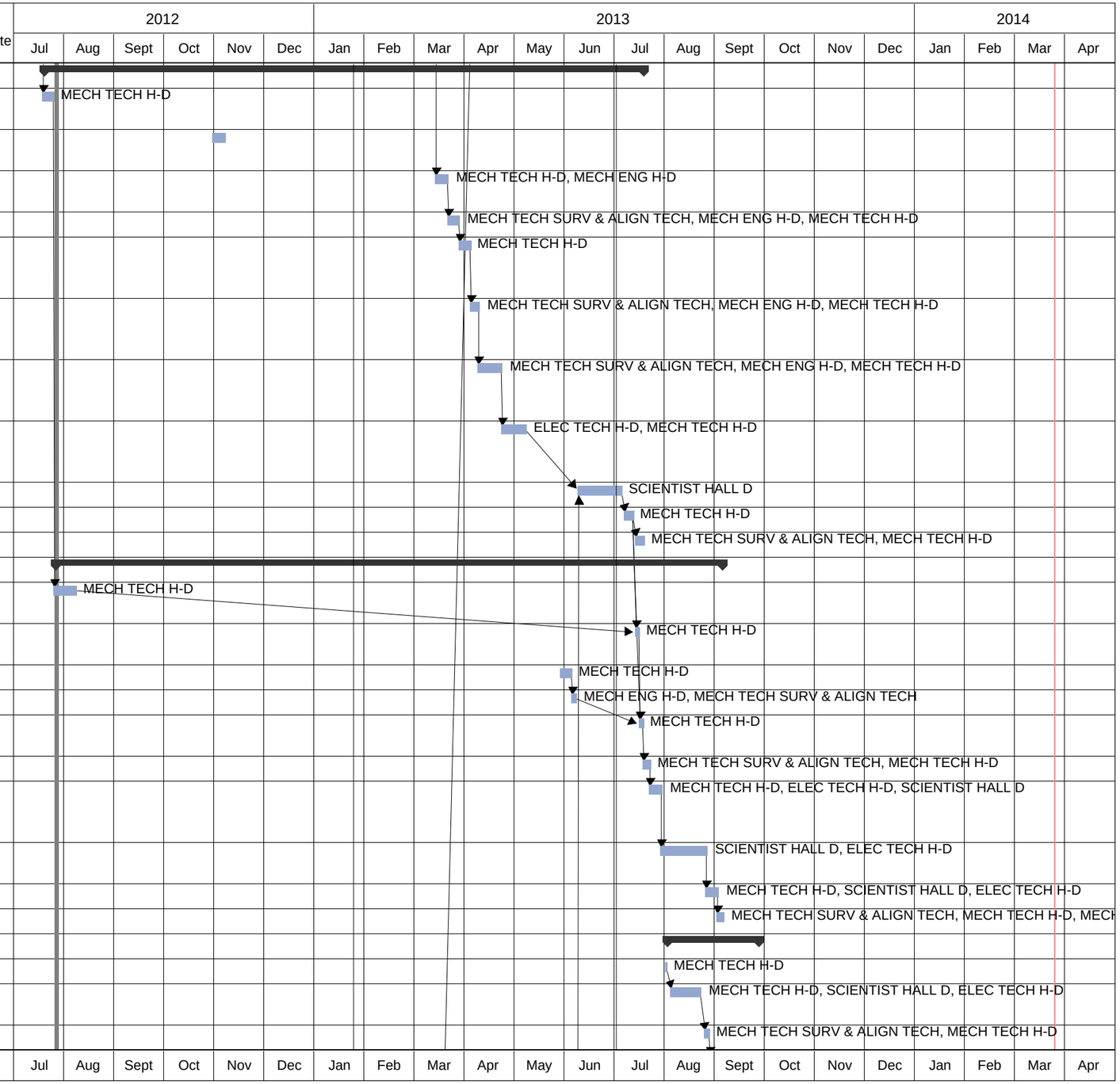
	Name	Duration (Work Days)	Start Date	Finish Date	Revised Duration (Work Days)	Revised Start Date	Revised Finish Date
94	Collimator Cave	**59.10**	**5/1/12**	**7/4/13**	**59.10**	**5/1/12**	**7/4/13**
95	*Install active collimator*	**52.60**	**5/1/12**	**5/20/13**	**52.60**	**5/1/12**	**5/20/13**
96	Install linear positioning stage and plate	0.40	5/1/12	5/2/12	0.40	5/1/12	5/2/12
97	Assemble primary fixed collimator	1.00	5/3/12	5/9/12	1.00	5/3/12	5/9/12
98	Assemble Active collimator	2.00	5/6/13	5/17/13	2.00	5/6/13	5/17/13
99	Fiducialize Primary/fixed collimator	0.20	5/20/13	5/20/13	0.20	5/20/13	5/20/13
100	*Assemble Secondary Fixed Collimator*	1.00	5/1/12	5/7/12	1.00	5/1/12	5/7/12
101	*Install Secondary Fixed Collimator*	0.20	5/8/12	5/8/12	0.20	5/8/12	5/8/12
102	*Fiducialize Secondary Fixed Collimator*	0.20	5/9/12	5/9/12	0.20	5/9/12	5/9/12
103	*Test Beam line window material*	2.20	5/10/12	5/24/12	2.20	5/10/12	5/24/12
104	*Install Windows on beam line*	1.10	5/21/13	5/28/13	1.10	5/21/13	5/28/13
105	*Install Harps and stands*	1.10	5/28/13	6/4/13	1.10	5/28/13	6/4/13
106	*Install beam line piping supports*	1.00	6/5/13	6/11/13	1.00	6/5/13	6/11/13
107	*Install vacuum beam line components*	0.50	6/12/13	6/14/13	0.50	6/12/13	6/14/13
108	*Initial Alignment Collimator cave components*	0.40	6/14/13	6/18/13	0.40	6/14/13	6/18/13
109	*Install vacuum pumps and pump down*	2.00	6/18/13	7/2/13	2.00	6/18/13	7/2/13
110	*Final Align Collimator cave components*	0.40	7/2/13	7/4/13	0.40	7/2/13	7/4/13
111	Installation of detectors	**66.80**	**6/4/12**	**9/27/13**	**66.80**	**6/4/12**	**9/27/13**
112	*FCAL*	**31.60**	**6/4/12**	**1/24/13**	**31.60**	**6/4/12**	**1/24/13**
113	Assemble downstream carriage	4.00	6/4/12	6/29/12	4.00	6/4/12	6/29/12
114	Install FCAL Detector housing	2.00	7/2/12	7/16/12	2.00	7/2/12	7/16/12
115	Install Detector housing infrastructure	2.00	7/17/12	7/30/12	2.00	7/17/12	7/30/12
116	Fiducialize FCAL Detector housing	0.60	7/31/12	8/2/12	0.60	7/31/12	8/2/12
117	Mount FCAL equipment racks	1.00	8/3/12	8/9/12	1.00	8/3/12	8/9/12



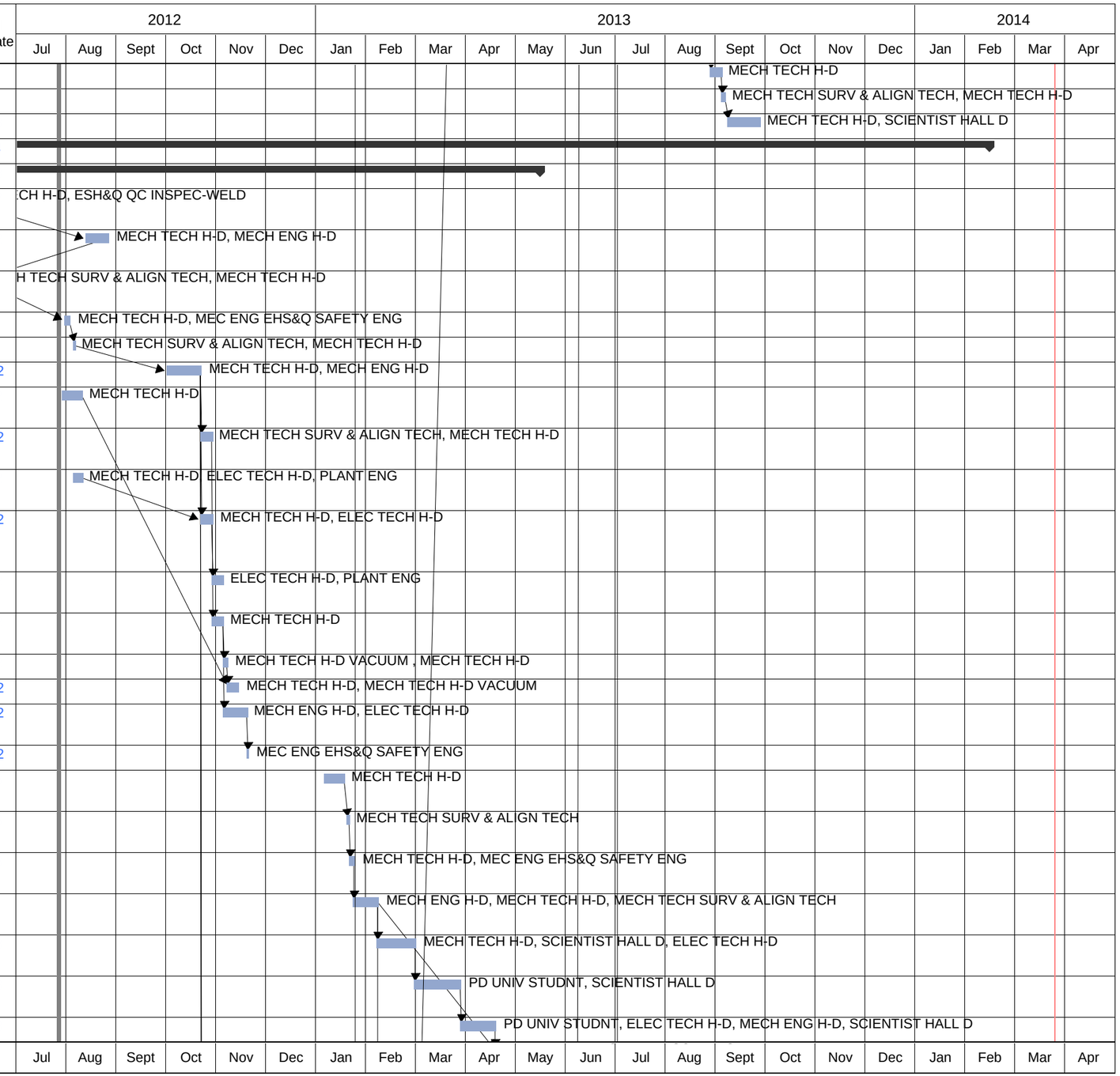
	Name	Duration (Work Days)	Start Date	Finish Date	Revised Duration (Work Days)	Revised Start Date	Revised Finish Date
118	Install Electronic equipment into racks	2.00	8/10/12	8/23/12	2.00	8/10/12	8/23/12
119	Fabricate Semi-clean tent on carriage	1.00	8/24/12	8/30/12	1.00	8/24/12	8/30/12
120	Stack FCAL blocks	12.00	8/31/12	11/27/12	12.00	8/31/12	11/27/12
121	Install PMT,s and interior cabling	3.00	11/28/12	12/18/12	3.00	11/28/12	12/18/12
122	Align FCAL to beam line	0.40	12/19/12	12/20/12	0.40	12/19/12	12/20/12
123	Test FCAL	4.00	12/19/12	1/24/13	4.00	12/19/12	1/24/13
124	*BCAL*	**41.20**	**7/5/12**	**5/2/13**	**41.20**	**7/5/12**	**5/2/13**
125	Remove portion of Up-Stream(US) Platform	1.00	7/5/12	7/11/12	1.00	7/5/12	7/11/12
126	Install BCAL rails into solenoid	2.00	7/12/12	7/25/12	2.00	7/12/12	7/25/12
127	Survey and Align BCAL Rails	1.00	7/26/12	8/1/12	1.00	7/26/12	8/1/12
128	Fabricate/assemble BCAL light guide clean tent	1.00	7/5/12	7/11/12	1.00	7/5/12	7/11/12
129	Assemble BCAL light guide/readout	20.00	7/12/12	12/3/12	20.00	7/12/12	12/3/12
130	Fabricate BCAL Assembly cart	2.00	7/5/12	7/18/12	2.00	7/5/12	7/18/12
131	Align BCAL tooling assembly	1.00	7/19/12	7/25/12	1.00	7/19/12	7/25/12
132	Assemble BCAL wedge	3.00	12/4/12	1/2/13	3.00	12/4/12	1/2/13
133	Survey align BCAL on assembly cart	1.00	1/3/13	1/9/13	1.00	1/3/13	1/9/13
134	Install BCAL into Solenoid	1.00	1/10/13	1/16/13	1.00	1/10/13	1/16/13
135	Survey BCAL in position	0.20	1/17/13	1/17/13	0.20	1/17/13	1/17/13
136	Install/align FDC and FDC cable rails	2.00	1/18/13	1/31/13	2.00	1/18/13	1/31/13
137	Install Cooling Manifolds	1.00	2/1/13	2/7/13	1.00	2/1/13	2/7/13
138	Pre-install Cables, gas, and cooling lines on Face of Solenoid	3.00	2/8/13	2/28/13	3.00	2/8/13	2/28/13
139	Remove BCAL Platform	1.00	3/1/13	3/7/13	1.00	3/1/13	3/7/13
140	Reinstall removed US platform	1.00	3/8/13	3/14/13	1.00	3/8/13	3/14/13
141	Install cooling plates, SiPM's, etc on all 48 modules	3.00	3/15/13	4/4/13	3.00	3/15/13	4/4/13
142	Connect cabling, gas, cooling lines	1.00	4/5/13	4/11/13	1.00	4/5/13	4/11/13
143	Test BCAL	3.00	4/12/13	5/2/13	3.00	4/12/13	5/2/13



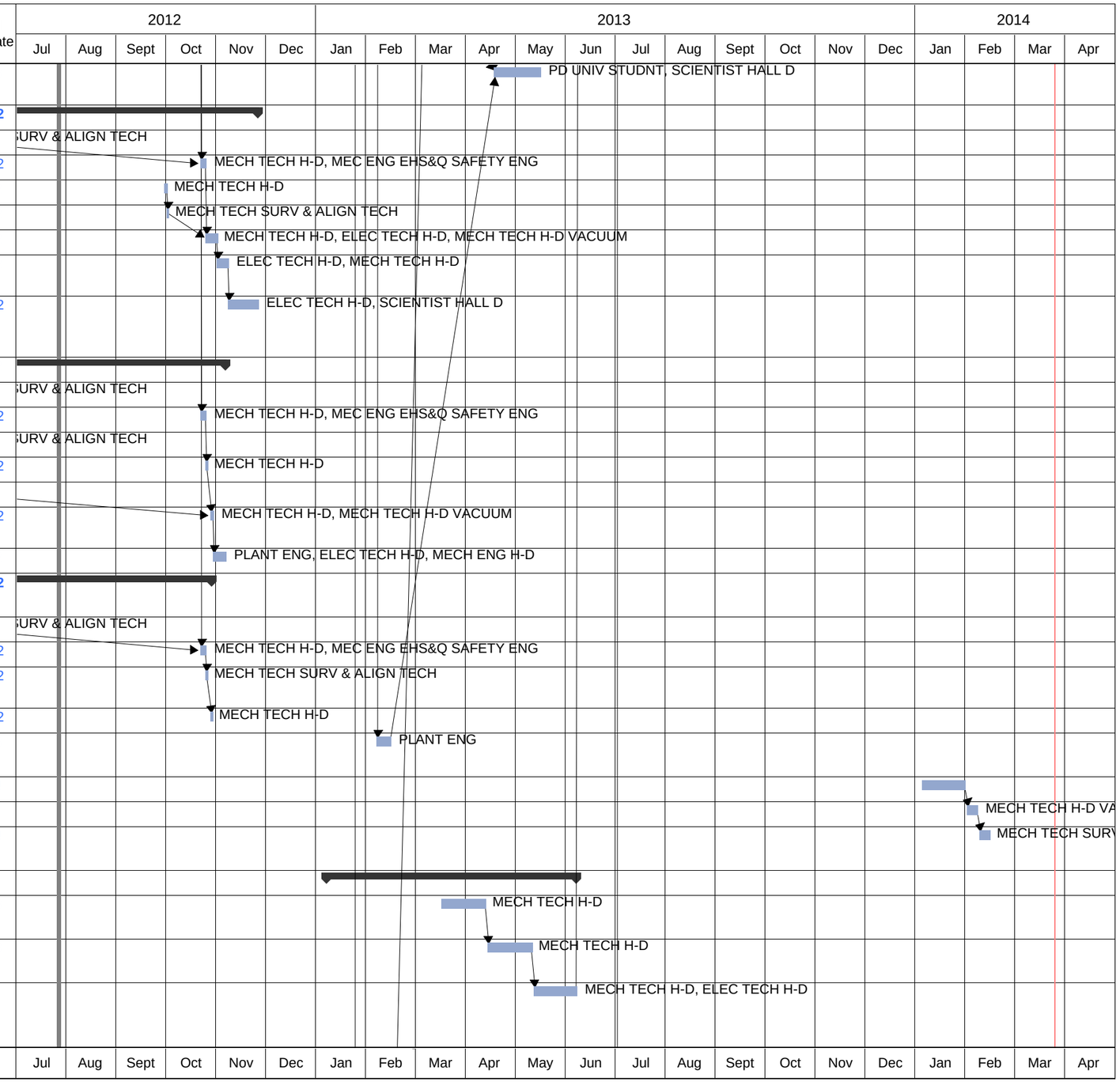
	Name	Duration (Work Days)	Start Date	Finish Date	Revised Duration (Work Days)	Revised Start Date	Revised Finish Date
144	*FDC*	**50.40**	**7/19/12**	**7/19/13**	**50.40**	**7/19/12**	**7/19/13**
145	Fabricate FDC Installation Cart	1.00	7/19/12	7/25/12	1.00	7/19/12	7/25/12
146	Fiducialize Finished FDC Detector	1.00	11/1/12	11/7/12	1.00	11/1/12	11/7/12
147	Install Insertion Cart rails on US platform	1.00	3/15/13	3/21/13	1.00	3/15/13	3/21/13
148	Survey/Align rails	1.00	3/22/13	3/28/13	1.00	3/22/13	3/28/13
149	Install cart and perform rough Align with rails in BCAL	1.00	3/29/13	4/4/13	1.00	3/29/13	4/4/13
150	Survey/Align Rails on FDC cart to match rails on BCAL	0.60	4/5/13	4/9/13	0.60	4/5/13	4/9/13
151	Install FDC onto insertion cart and install align in Solenoid	2.00	4/10/13	4/23/13	2.00	4/10/13	4/23/13
152	Remove FDC from Solenoid and cable to electronics	2.00	4/24/13	5/7/13	2.00	4/24/13	5/7/13
153	Test FDC	4.00	6/10/13	7/5/13	4.00	6/10/13	7/5/13
154	Install FDC	1.00	7/8/13	7/12/13	1.00	7/8/13	7/12/13
155	Perform final survey	1.00	7/15/13	7/19/13	1.00	7/15/13	7/19/13
156	*CDC*	**56.30**	**7/26/12**	**9/6/13**	**56.30**	**7/26/12**	**9/6/13**
157	Fabricate CDC insertion cart	2.00	7/26/12	8/8/12	2.00	7/26/12	8/8/12
158	Install cart and rough align to installation rails	0.40	7/15/13	7/16/13	0.40	7/15/13	7/16/13
159	CDC delivered to Lab	1.00	5/30/13	6/5/13	1.00	5/30/13	6/5/13
160	Fiducialize CDC	0.40	6/6/13	6/7/13	0.40	6/6/13	6/7/13
161	Install CDC on insertion cart	0.40	7/17/13	7/18/13	0.40	7/17/13	7/18/13
162	Install CDC and Survey	0.50	7/19/13	7/23/13	0.50	7/19/13	7/23/13
163	Remove CDC from Solenoid and install cables	1.00	7/23/13	7/30/13	1.00	7/23/13	7/30/13
164	Test CDC on Insertion cart	4.00	7/30/13	8/27/13	4.00	7/30/13	8/27/13
165	Install CDC and retest	1.00	8/27/13	9/3/13	1.00	8/27/13	9/3/13
166	Perform final survey	0.60	9/3/13	9/6/13	0.60	9/3/13	9/6/13
167	*TOF*	**8.20**	**8/2/13**	**9/27/13**	**8.20**	**8/2/13**	**9/27/13**
168	Receive TOF Panels	0.20	8/2/13	8/2/13	0.20	8/2/13	8/2/13
169	Assemble TOF into frames and test	3.00	8/5/13	8/23/13	3.00	8/5/13	8/23/13
170	Fiducialize Panels	0.60	8/26/13	8/28/13	0.60	8/26/13	8/28/13



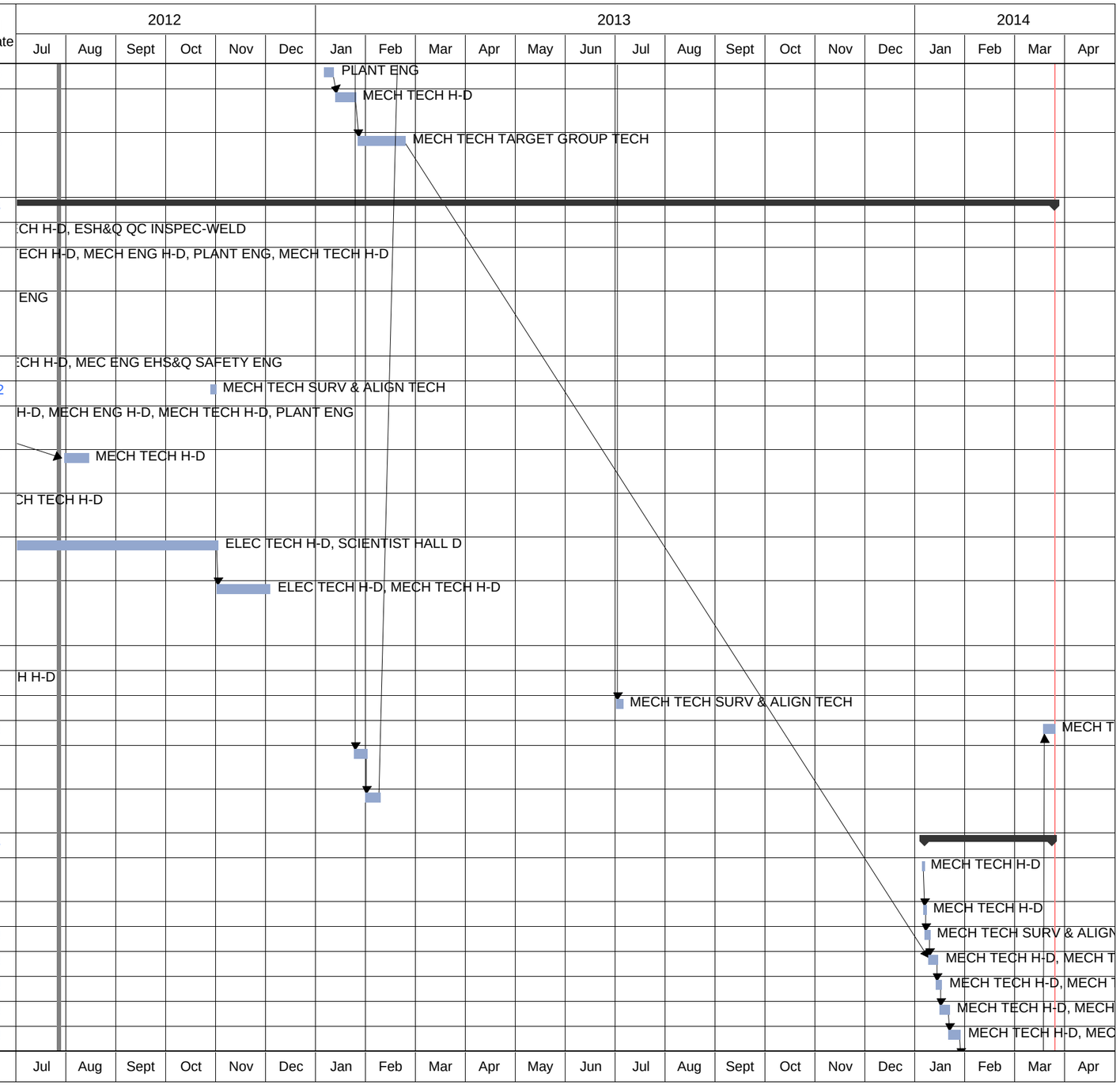
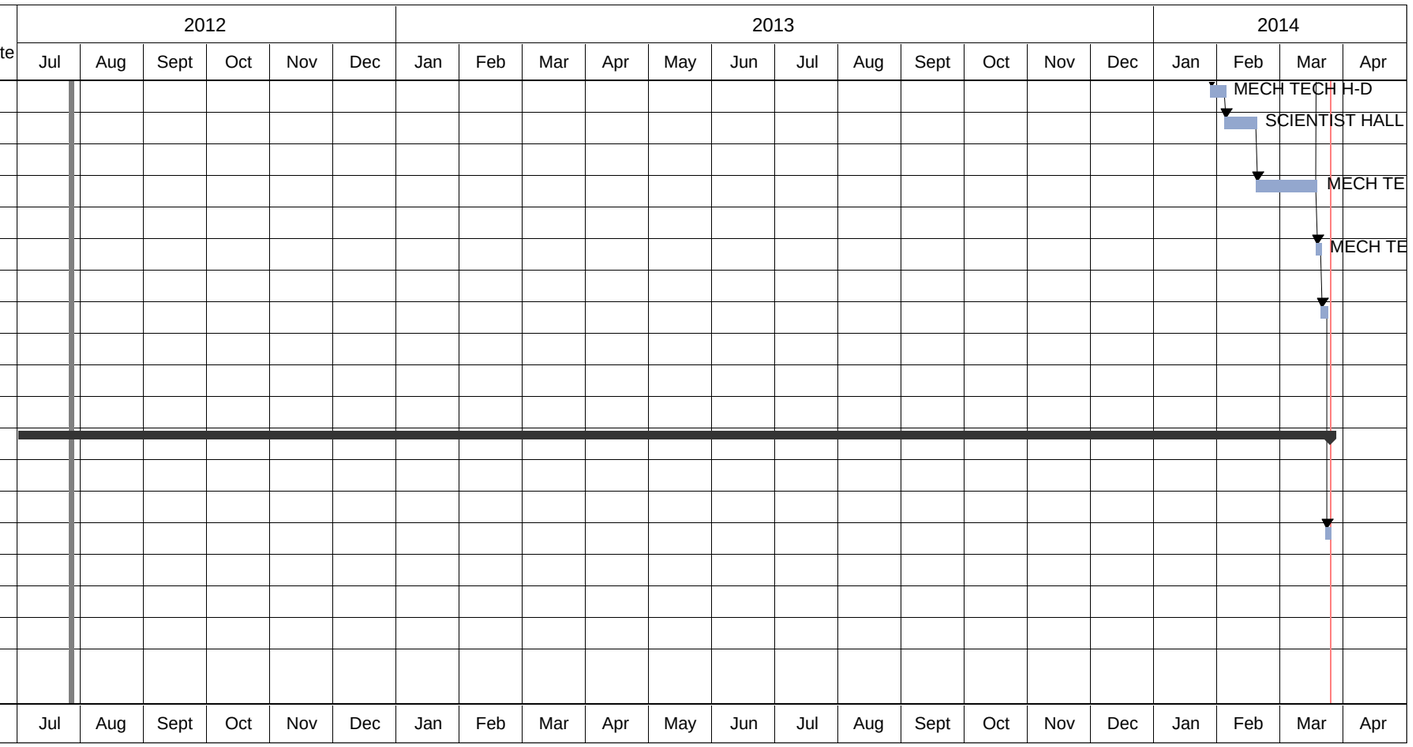
	Name	Duration (Work Days)	Start Date	Finish Date	Revised Duration (Work Days)	Revised Start Date	Revised Finish Date
171	Mount panels	1.00	8/29/13	9/4/13	1.00	8/29/13	9/4/13
172	Align Panels	0.40	9/5/13	9/6/13	0.40	9/5/13	9/6/13
173	Cable TOF and Test	3.00	9/9/13	9/27/13	3.00	9/9/13	9/27/13
174	Tagger Hall	**91.40**	**5/1/12**	**2/14/14**	**91.40**	**5/1/12**	**2/14/14**
175	*Tagger*	**52.20**	**5/1/12**	**5/16/13**	**52.20**	**5/1/12**	**5/16/13**
176	Fabricate and install Tagger LCW manifold	3.00	5/1/12	5/21/12	3.00	5/1/12	5/21/12
177	Assemble tagger magnet gantry crane	2.00	8/14/12	8/27/12	2.00	8/14/12	8/27/12
178	Survey and Mark Tagger stand locations	0.50	6/6/12	6/8/12	0.50	6/6/12	6/8/12
179	Install Tagger stands	0.60	8/1/12	8/3/12	0.60	8/1/12	8/3/12
180	Align Stands	0.20	8/6/12	8/6/12	0.20	8/6/12	8/6/12
181	Install Tagger Magnet	3.00	10/2/12	10/22/12	3.00	10/2/12	10/22/12
182	Fabricate/test thin window tagger	2.00	7/30/12	8/10/12	2.00	7/30/12	8/10/12
183	Fiducialize magnet and align	1.00	10/23/12	10/29/12	1.00	10/23/12	10/29/12
184	Install Power supply in Service Building	1.00	8/6/12	8/10/12	1.00	8/6/12	8/10/12
185	Install power cables between supply and magnet	1.00	10/23/12	10/29/12	1.00	10/23/12	10/29/12
186	Test Power supply and controls	1.00	10/30/12	11/5/12	1.00	10/30/12	11/5/12
187	Connect to LCW and test for leaks	1.00	10/30/12	11/5/12	1.00	10/30/12	11/5/12
188	Install Vacuum pump	0.40	11/6/12	11/7/12	0.40	11/6/12	11/7/12
189	Install thin window	1.00	11/8/12	11/14/12	1.00	11/8/12	11/14/12
190	Energize magnet and test controls	2.00	11/6/12	11/19/12	2.00	11/6/12	11/19/12
191	Fringe field survey	0.20	11/20/12	11/20/12	0.20	11/20/12	11/20/12
192	Built Hodoscope support frame	2.00	1/7/13	1/18/13	2.00	1/7/13	1/18/13
193	Mark Hodoscope support stand locations	0.20	1/21/13	1/21/13	0.20	1/21/13	1/21/13
194	Install Hodoscope support stands	0.60	1/22/13	1/24/13	0.60	1/22/13	1/24/13
195	Mount Hodoscope and Align	2.00	1/25/13	2/7/13	2.00	1/25/13	2/7/13
196	Install electronic equipment and racks	3.00	2/8/13	2/28/13	3.00	2/8/13	2/28/13
197	Install Hodoscope detectors and cabling	4.00	3/1/13	3/28/13	4.00	3/1/13	3/28/13
198	Install Microscope	3.00	3/29/13	4/18/13	3.00	3/29/13	4/18/13



	Name	Duration (Work Days)	Start Date	Finish Date	Revised Duration (Work Days)	Revised Start Date	Revised Finish Date
199	Test Hodoscope and Microscope	4.00	4/19/13	5/16/13	4.00	4/19/13	5/16/13
200	*Goniometer*	**29.00**	**5/1/12**	**11/26/12**	**29.00**	**5/1/12**	**11/26/12**
201	Mark Stand location	0.20	5/1/12	5/1/12	0.20	5/1/12	5/1/12
202	Install stand	0.60	10/23/12	10/25/12	0.60	10/23/12	10/25/12
203	Receive instrument	0.20	10/1/12	10/1/12	0.20	10/1/12	10/1/12
204	Fiducialize Goniometer	0.20	10/2/12	10/2/12	0.20	10/2/12	10/2/12
205	Install Goniometer	1.00	10/26/12	11/1/12	1.00	10/26/12	11/1/12
206	Run cables from racks to device	1.00	11/2/12	11/8/12	1.00	11/2/12	11/8/12
207	Connect Motor and position read back cables; test	2.00	11/9/12	11/26/12	2.00	11/9/12	11/26/12
208	*Quadrapole magnet*	**26.60**	**5/1/12**	**11/6/12**	**26.60**	**5/1/12**	**11/6/12**
209	Mark Stand location	0.20	5/1/12	5/1/12	0.20	5/1/12	5/1/12
210	Install stands	0.60	10/23/12	10/25/12	0.60	10/23/12	10/25/12
211	Fiducialize magnet	0.20	5/1/12	5/1/12	0.20	5/1/12	5/1/12
212	Install magnet onto stand	0.20	10/26/12	10/26/12	0.20	10/26/12	10/26/12
213	Procure power supply	0.20	5/1/12	5/1/12	0.20	5/1/12	5/1/12
214	Connect power and LCW lines	0.40	10/29/12	10/30/12	0.40	10/29/12	10/30/12
215	Test Magnet	1.00	10/31/12	11/6/12	1.00	10/31/12	11/6/12
216	*Permanent Sweep Magnet*	**25.40**	**5/1/12**	**10/29/12**	**25.40**	**5/1/12**	**10/29/12**
217	Mark stand Locations	0.20	5/1/12	5/1/12	0.20	5/1/12	5/1/12
218	Install Stands	0.60	10/23/12	10/25/12	0.60	10/23/12	10/25/12
219	Fiducialize Sweep magnet	0.20	10/26/12	10/26/12	0.20	10/26/12	10/26/12
220	Install Sweep Magnet	0.20	10/29/12	10/29/12	0.20	10/29/12	10/29/12
221	*Install Additional Power outlets*	1.00	2/8/13	2/14/13	1.00	2/8/13	2/14/13
222	*Install Tagger Dump*	4.00	1/6/14	1/31/14	4.00	1/6/14	1/31/14
223	*Install Beam line*	1.00	2/3/14	2/7/14	1.00	2/3/14	2/7/14
224	*Align Tagger Hall Beam Line*	1.00	2/10/14	2/14/14	1.00	2/10/14	2/14/14
225	Gas shed	**22.00**	**1/7/13**	**6/7/13**	**22.00**	**1/7/13**	**6/7/13**
226	*Install gas system equipment in shed*	4.00	3/18/13	4/12/13	4.00	3/18/13	4/12/13
227	*Run detector gas lines to Hall*	4.00	4/15/13	5/10/13	4.00	4/15/13	5/10/13
228	*Run instrumentation lines between shed and sensors*	4.00	5/13/13	6/7/13	4.00	5/13/13	6/7/13



	Name	Duration (Work Days)	Start Date	Finish Date	Revised Duration (Work Days)	Revised Start Date	Revised Finish Date
229	*Install Hydrogen tank*	1.00	1/7/13	1/11/13	1.00	1/7/13	1/11/13
230	*Run flammable gas lines to Target Cart area*	2.00	1/14/13	1/25/13	2.00	1/14/13	1/25/13
231	*Install Gas handling/monitoring equipment*	4.00	1/28/13	2/22/13	4.00	1/28/13	2/22/13
232	Hall infrastructure	**96.80**	**5/1/12**	**3/25/14**	**96.80**	**5/1/12**	**3/25/14**
233	*Complete Hall D LCW*	3.00	5/1/12	5/21/12	3.00	5/1/12	5/21/12
234	*Install electrical power infrastructure*	4.00	5/1/12	5/29/12	4.00	5/1/12	5/29/12
235	*Fire sprinkler system installed under US platform*	4.00	5/1/12	5/29/12	4.00	5/1/12	5/29/12
236	*Install collimator shielding*	3.00	5/1/12	5/21/12	3.00	5/1/12	5/21/12
237	*Control Network Survey*	0.60	10/29/12	10/31/12	0.60	10/29/12	10/31/12
238	*Install UPS in Counting House*	1.00	5/1/12	5/7/12	1.00	5/1/12	5/7/12
239	*Install racks in Counting House*	2.00	8/1/12	8/14/12	2.00	8/1/12	8/14/12
240	*Mount equipment racks in Hall D*	2.00	5/30/12	6/12/12	2.00	5/30/12	6/12/12
241	*Install Electronic equipment into Racks*	20.00	6/13/12	11/1/12	20.00	6/13/12	11/1/12
242	*Install cabling between racks and detector locations*	4.00	11/2/12	12/3/12	4.00	11/2/12	12/3/12
243	*Install Air compressor*	1.00	5/1/12	5/7/12	1.00	5/1/12	5/7/12
244	*Install air line*	2.00	5/1/12	5/14/12	2.00	5/1/12	5/14/12
245	*Control Network Survey*	0.60	7/2/13	7/5/13	0.60	7/2/13	7/5/13
246	*Control Network Survey*	1.00	3/19/14	3/25/14	1.00	3/19/14	3/25/14
247	*Install GN2 line from Cryo hut to Hall*	1.00	1/25/13	2/1/13	1.00	1/25/13	2/1/13
248	*Fabricate GN2 Mainfold and mount*	1.00	2/1/13	2/8/13	1.00	2/1/13	2/8/13
249	Target	**11.10**	**1/6/14**	**3/24/14**	**11.10**	**1/6/14**	**3/24/14**
250	*Install Target insertion cart*	0.20	1/6/14	1/6/14	0.20	1/6/14	1/6/14
251	*Install target onto cart*	0.20	1/7/14	1/7/14	0.20	1/7/14	1/7/14
252	*Fidualize target*	0.50	1/8/14	1/10/14	0.50	1/8/14	1/10/14
253	*Hook-up gas, Cryo lines*	0.50	1/10/14	1/14/14	0.50	1/10/14	1/14/14
254	*Install target controls*	0.50	1/15/14	1/17/14	0.50	1/15/14	1/17/14
255	*Install control cabling*	0.50	1/17/14	1/21/14	0.50	1/17/14	1/21/14
256	*test target controls*	1.00	1/22/14	1/28/14	1.00	1/22/14	1/28/14



	Name	Duration (Work Days)	Start Date	Finish Date	Revised Duration (Work Days)	Revised Start Date	Revised Finish Date
257	*Install start counter*	1.00	1/29/14	2/4/14	1.00	1/29/14	2/4/14
258	*Test start counter*	2.00	2/5/14	2/18/14	2.00	2/5/14	2/18/14
259							
260	*cool down target and test*	4.00	2/19/14	3/18/14	4.00	2/19/14	3/18/14
261							
262	*Align Target*	0.50	3/19/14	3/21/14	0.50	3/19/14	3/21/14
263							
264	*Move Target into position*	0.20	3/21/14	3/24/14	0.20	3/21/14	3/24/14
265							
266							
267	Beam Line tasks						
268		**96.70**	**5/1/12**	**3/25/14**	**96.70**	**5/1/12**	**3/25/14**
269	*Collimator cave*	0.20	5/1/12	5/1/12	0.20	5/1/12	5/1/12
270							
271	*PS to Target BL*	0.20	3/24/14	3/25/14	0.20	3/24/14	3/25/14
272							
273	*Colimator cave to PS*	0.20	5/1/12	5/1/12	0.20	5/1/12	5/1/12
274							
275	*FCAL to Photon Beam dump*	0.20	5/1/12	5/1/12	0.20	5/1/12	5/1/12