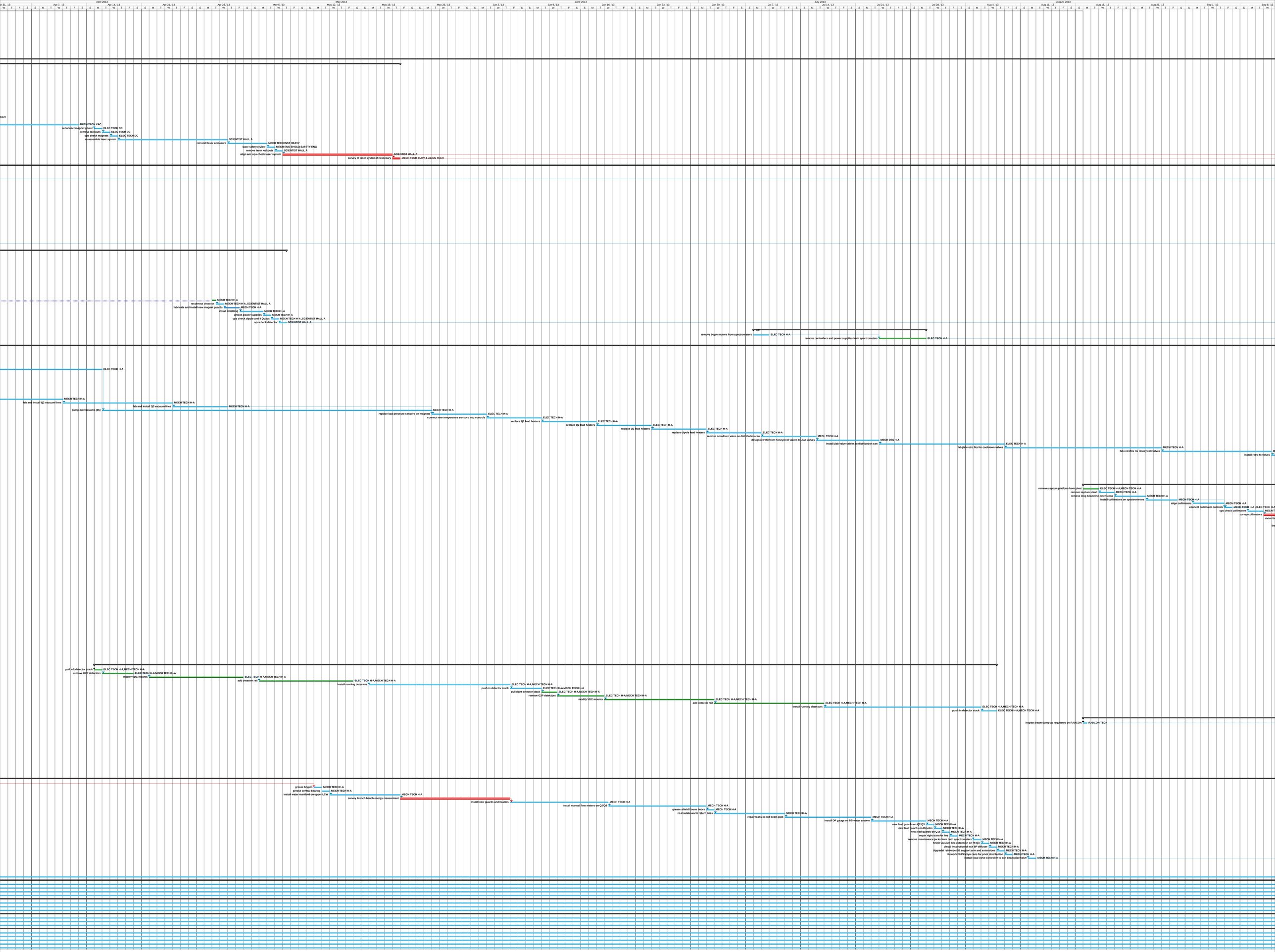
ID		Activity #	Task Name	12GEV / Program	Start	Finish	Risk code pre THA	Task Hazard Analysis	Risk code post	Abs	Hot Work	OSP, IR plan	Duration	Work	Outside resources
1			anchor point		Fri 12/7/12	Fri 12/7/12							0 days	0 hrs	
2			Radcon		Fri 12/7/12	Fri 12/7/12							0 days	0 hrs	
3			Alignment		Fri 12/7/12	Fri 12/7/12							0 days	0 hrs	
4			Engineering electronics or electrical		Fri 12/7/12	Fri 12/7/12							0 days	0 hrs	
5			Engineering mechanical		Fri 12/7/12	Fri 12/7/12							0 days	0 hrs	
6			engineering Vacuum		Fri 12/7/12	Fri 12/7/12							0 days	0 hrs	
7			Hall A techs or users		Fri 12/7/12	Fri 12/7/12							0 days	0 hrs	
8			target group		Fri 12/7/12	Fri 12/7/12							0 days	0 hrs	
9			Dick Software		Fri 12/7/12	Fri 12/7/12							0 days	0 hrs	
10			Float		Fri 12/7/12	Fri 12/7/12							0 days	0 hrs	
11					Fri 12/7/12	Fri 12/7/12							0 days?	0 hrs	
12			anchor point		Fri 12/7/12	Fri 12/7/12							1 day?	0 hrs	
13															
14			**LSD**	**Program**	**Mon 12/10/12**	**Fri 2/14/14**							**303 days?**	**11,300 hrs**	
15			**Compton**	**12 Gev**	**Wed 12/12/3**	**Thu 5/23/13**							**102 days?**	**1,016 hrs**	
16	✓	124152025	raise and install spacer block on #2 dipole	12 Gev	Wed 12/12/3	Fri 14/1/3							3 days	24 hrs	Y
17	✓	124152030	raise and install spacer block on #3 dipole	12 Gev	Mon 1/7/13	Wed 1/9/13							3 days	24 hrs	Y
18	✓	124152035	raise laser table and insert spacers	12 Gev	Thu 1/10/13	Tue 1/15/13							4 days?	64 hrs	
19	✓	124152040	survey laser table	12 Gev	Wed 1/16/13	Wed 1/16/13	SOT	XXX					1 day	8 hrs	Y
20	✓	124152045	survey and align #2 dipole	12 Gev	Thu 1/17/13	Thu 1/17/13	SOT	XXX					1 day	8 hrs	Y
21	✓	124152050	survey and align #3 dipole	12 Gev	Mon 1/28/13	Fri 1/28/13	SOT	XXX					1 day	8 hrs	Y
22		124152055	install magnet beam lines to laser table	12 Gev	Mon 1/21/13	Fri 1/25/13	SOT	XXX					5 days	40 hrs	Y
23		124152060	install new transition beam lines and ion pumps	12 Gev	Mon 1/28/13	Fri 2/8/13	SOT	XXX					10 days	80 hrs	Y
24		124152065	re-assemble lower beam line	12 Gev	Mon 2/11/13	Fri 3/8/13	SOT	XXX					20 days	320 hrs	Y
25	✓	124152066	install detector can	12 Gev	Mon 3/11/13	Mon 3/11/13							1 day	16 hrs	Y
26	✓	124152067	install detectors	12 Gev	Tue 3/12/13	Tue 3/19/13							6 days	48 hrs	Y
27		124152070	pump down beam lines and leak check	12 Gev	Wed 3/20/13	Thu 3/21/13	SOT	XXX					2 days?	16 hrs	Y
28		124152075	survey beam lines	12 Gev	Fri 3/22/13	Wed 3/27/13	SOT	XXX					4 days	32 hrs	Y
29		124152076	Survey detector can and detectors	12 Gev	Thu 3/28/13	Thu 3/28/13	SOT	XXX					1 day?	8 hrs	Y
30		124152077	install beam diagnostics instrumentation	12 Gev	Fri 3/29/13	Fri 3/29/13	SOT	XXX					1 day?	8 hrs	Y
31		124152080	bake beam lines and pump	12 Gev	Mon 4/1/13	Fri 4/12/13	SOT	XXX					10 days?	80 hrs	Y
32		124152085	reconnect magnet power	12 Gev	Mon 4/15/13	Mon 4/15/13	SOT	XXX					1 day?	8 hrs	Y
33		124152090	remove lockouts	12 Gev	Tue 4/16/13	Tue 4/16/13	SOT	XXX					1 day?	8 hrs	Y
34		124152095	ops check magnets	12 Gev	Wed 4/17/13	Wed 4/17/13	SOT	XXX					1 day?	8 hrs	Y
35		124152100	re-assemble laser system	12 Gev	Thu 4/18/13	Wed 5/1/13	SOT	XXX					10 days?	80 hrs	
36		124152105	reinstall laser enclosure	12 Gev	Thu 5/2/13	Mon 5/6/13	SOT	XXX					3 days?	24 hrs	Y
37		124152110	laser safety review	12 Gev	Tue 5/7/13	Tue 5/7/13	SOT	XXX					1 day?	8 hrs	Y
38		124152115	remove laser lockouts	12 Gev	Wed 5/8/13	Wed 5/8/13	SOT	XXX					1 day?	8 hrs	
39		124152120	align and ops check laser system	12 Gev	Thu 5/9/13	Wed 5/22/13	SOT	XXX					10 days?	80 hrs	Y
40		124152121	ready for beam commissioning	12 Gev	Thu 5/23/13	Thu 5/23/13	SOT	XXX					0 days	0 hrs	Y
41															
42			**remove G2P**	**Program**	**Mon 12/10/12**	**Fri 2/14/14**							**303 days?**	**18,204 hrs**	
43	✓		**upside down girder**	**Program**	**Mon 1/7/13**	**Wed 1/9/13**							**3 days?**	**24 hrs**	
44	✓	124211050	final alignment	Program	Wed 1/9/13	Wed 1/9/13	SOT	XXX		Y	N		1 day?	8 hrs	Y
45	✓	124211055	unlock power supplies and test magnets	Program	Wed 1/9/13	Wed 1/9/13	SOT	XXX			N		1 day?	8 hrs	Y
46															
47			**install upstream beam girder**	**Program**	**Mon 1/14/13**	**Fri 3/1/13**							**35 days?**	**280 hrs**	
48	✓	12412114000	install girder supports	Program	Mon 1/14/13	Fri 1/18/13					N		5 days?	40 hrs	
49	✓	12412114005	align girder supports	Program	Mon 1/21/13	Fri 1/25/13	SOT	XXX			N		5 days?	40 hrs	
50	✓	12412114010	survey girder supports	Program	Wed 1/30/13	Wed 1/30/13	SOT	XXX		Y	N		2 days?	16 hrs	Y
51	✓	12412114015	grout girder supports	Program	Wed 1/30/13	Wed 1/30/13	SOT	XXX			N		1 day?	8 hrs	
52	✓	12412114020	set up time	Program	Thu 1/31/13	Mon 2/4/13	SOT	XXX			N		3 days?	24 hrs	
53	✓	12412114025	install girder	Program	Tue 2/5/13	Wed 2/6/13					N		2 days?	16 hrs	
54	✓	12412114030	install vacuum pump	Program	Thu 2/7/13	Fri 2/8/13	SOT	XXX			N		2 days?	16 hrs	
55	✓	12412114035	2A girder alignment	Program	Wed 2/13/13	Thu 2/14/13	SOT	XXX		Y	N		2 days?	16 hrs	Y
56	✓	12412114040	connect vacuum lines to upside down girder	Program	Thu 2/14/13	Thu 2/14/13	SOT	XXX			N		2 days?	16 hrs	
57	✓	12412114045	reinstall BCM	Program	Fri 2/15/13	Tue 2/19/13	SOT	XXX			N		3 days?	24 hrs	Y
58	✓	12412114050	connect instrumentation to BCM and Harps	Program	Wed 2/20/13	Thu 2/21/13	SOT	XXX			N		2 days	16 hrs	Y
59	✓	12412114055	install upstream beam line and downstream vacuum valve	Program	Fri 2/22/13	Mon 2/25/13	SOT	XXX			N		2 days?	16 hrs	
60	✓	12412114060	pump down and leak check	Program	Tue 2/26/13	Wed 3/27/13	SOT	XXX			N		7 days?	16 hrs	Y
61	✓	12412114065	2B alignment	Program	Thu 3/28/13	Thu 3/28/13	SOT	XXX		Y	N		1 day?	8 hrs	Y
62	✓	12412114070	ops check BCM and Harps	Program	Fri 3/1/13	Fri 3/1/13	SOT	XXX			N		1 day?	8 hrs	Y
63															
64			**Moeller**	**12 Gev**	**Mon 12/10/12**	**Thu 5/9/13**							**101.5 days?**	**368 hrs**	
65	✓	12412114110 5	install 4 quads on support	12Gev	Mon 12/10/12	Wed 12/12/12					N		3 days?	48 hrs	Y
66	✓	12412114115	align new quads on support	12Gev	Mon 12/17/12	Fri 12/21/12	SOT	XXX			N		5 days?	40 hrs	Y
67	✓	12412114110	install new quad support	12Gev	Mon 12/17/12	Tue 12/18/12					N		2 days?	16 hrs	
68	✓	12412114120	fab and install new quad beam lines	12Gev	Wed 12/19/12	Thu 1/3/13	SOT	XXX			N		5 days	40 hrs	
69	✓	12412114125	align new quad beam lines	12Gev	Fri 1/4/13	Fri 1/4/13	SOT	XXX			N		1 day?	8 hrs	Y
70	✓	124121141	install DC cables for 4th quad	12Gev	Tue 1/8/13	Thu 1/10/13	SOT	XXX			N		3 days?	48 hrs	Y
71	✓	124121141	install control cables and card for 4th quad	12Gev	Fri 1/11/13	Mon 1/14/13	SOT	XXX			N		2 days?	16 hrs	Y
72			test software for 4th quad	12Gev	Tue 1/15/13	Tue 1/15/13	SOT	XXX			N		1 day	8 hrs	Y
73	✓	124121141	test software for 4th quad	12Gev	Wed 1/16/13	Wed 1/16/13	SOT	XXX			N		1 day	16 hrs	Y
74	✓	124121141165	align detector package and shielding box	12Gev	Thu 1/17/13	Fri 1/18/13	SOT	XXX		Y	N		2 days	16 hrs	Y
75	✓	124121141155	pump down and leak check beam line	12Gev	Mon 1/21/13	Tue 1/22/13	SOT	XXX			N		2 days?	16 hrs	
76	✓	124121141	align beam line	12Gev	Wed 1/23/13	Fri 1/25/13	SOT	XXX			N		3 days?	24 hrs	Y
77	✓	124121141165	reconnect quads water and power	12Gev	Fri 1/25/13	Tue 4/30/13	SOT	XXX			N		1 day?	8 hrs	
78	✓	124121141175	reconnect detector	12Gev	Tue 4/30/13	Wed 5/1/13	SOT	XXX			N		1 day?	16 hrs	
79	✓	124121141180	fabricate and install new magnet guards	12Gev	Wed 5/1/13	Fri 5/3/13	SOT	XXX			N		2 days	16 hrs	
80	✓	124121141185	install shielding	12Gev	Fri 5/3/13	Mon 5/6/13	SOT	XXX			N		1 day?	8 hrs	
81	✓	124121141190	unlock power supplies	12Gev	Mon 5/6/13	Tue 5/7/13	SOT	XXX			N		1 day?	8 hrs	
82	✓	124121141195	ops check dipole and 4 Quads	12Gev	Tue 5/7/13	Wed 5/8/13	SOT	XXX			N		1 day?	16 hrs	
83	✓	124121141205	ops check detector	12Gev	Wed 5/8/13	Thu 5/9/13	SOT	XXX			N		1 day?	8 hrs	
84															
85			**radiation hardening of bogies**	**Program**	**Mon 7/8/13**	**Mon 7/29/13**							**16 days**	**48 hrs**	
86	✓	12412118000	remove bogie motors from spectrometers	Program	Mon 7/8/13	Tue 7/9/13	SOT	XXX			N		2 days	16 hrs	
87	✓	12412118005	remove controllers and power supplies from spectrometers	Program	Wed 7/24/13	Mon 7/29/13	SOT	XXX			N		4 days	32 hrs	
88															
89			**cryo**	**Program**	**Mon 1/7/13**	**Fri 2/14/14**							**290 days?**	**3,240 hrs**	
90	✓	124121200 0	install VME crates	Program	Mon 1/7/13	Thu 1/10/13	SOT	XXX			N		4 days?	32 hrs	
91	✓	124121200 5	wire VME crates to cryo patch panel	Program	Fri 1/11/13	Thu 1/24/13	SOT	XXX			N		10 days?	80 hrs	
92	✓	124121201 0	connect and ops check VME crates to network	Program	Fri 1/25/13	Wed 1/30/13	SOT	XXX			N		4 days?	32 hrs	
93	✓	124121201 5	rewire Q1 valves for VME control	Program	Thu 1/31/13	Mon 2/25/13	SOT	XXX			N		18 days?	144 hrs	
94	✓	124121202 5	rewire Q2 valves for VME control	Program	Tue 2/26/13	Wed 3/20/13	SOT	XXX			N		10 days?	80 hrs	
95	✓	124121203 5	rewire Q3 valves for VME control	Program	Wed 3/20/13	Mon 4/15/13	SOT	XXX			N		10 days?	80 hrs	
96	✓	124121204 5	rewire Dipole valves for VME control	Program	Tue 1/29/13	Mon 2/18/13	SOT	XXX			N		15 days?	120 hrs	
97	✓	124121205 0	calibrate all liquid level meters	Program	Tue 2/19/13	Thu 2/21/13	SOT	XXX			N		3 days	48 hrs	
98	✓	124121205 5	replace Q1 lead flow meters with hardened meters	Program	Fri 2/22/13	Tue 2/26/13	SOT	XXX			N		3 days?	24 hrs	
99	✓	124121206 0	replace Q2 lead flow meters with hardened meters	Program	Wed 2/27/13	Fri 3/1/13	SOT	XXX			N		3 days?	24 hrs	
100	✓	124121206 5	replace Q3 lead flow meters with hardened meters	Program	Mon 3/4/13	Wed 3/6/13	SOT	XXX			N		3 days?	24 hrs	
101	✓	124121207 0	replace Dipole lead flow meters with hardened meters	Program	Thu 3/7/13	Mon 3/11/13	SOT	XXX			N		3 days?	24 hrs	
102	✓	124121207 5	install new covers on balcony cryo boxes	Program	Tue 3/12/13	Wed 3/27/13	SOT	XXX			N		10 days?	80 hrs	
103	✓	124121208 0	fab and install Q1 vacuum lines	Program	Thu 3/28/13	Wed 4/10/13	SOT	XXX			N		10 days?	80 hrs	
104	✓	124121208 5	fab and install Q2 vacuum lines	Program	Thu 4/11/13	Wed 4/24/13	SOT	XXX			N		10 days?	80 hrs	
105	✓	124121209 0	fab and install Q3 vacuum lines	Program	Thu 4/25/13	Wed 5/1/13	SOT	XXX			N		5 days?	40 hrs	
106	✓	124121209 5	pump out vacuums (85)	Program	Tue 4/16/13	Mon 5/27/13	SOT	XXX			N		30 days	240 hrs	
107	✓	124121210 0	replace bad pressure sensors on magnets	Program	Tue 5/28/13	Mon 6/3/13	SOT	XXX			N		5 days	40 hrs	
108	✓	124121210 5	connect new temperature sensors into controls	Program	Tue 6/4/13	Mon 6/10/13	SOT	XXX			N		5 days	40 hrs	
109	✓	124121211 0	replace Q1 lead heaters	Program	Tue 6/11/13	Mon 6/17/13	SOT	XXX			N		5 days	40 hrs	
110	✓	124121211 5	replace Q2 lead heaters	Program	Tue 6/18/13	Mon 6/24/13	SOT	XXX			N		5 days	40 hrs	
111	✓	124121212 0	replace Q3 lead heaters	Program	Tue 6/25/13	Mon 7/1/13	SOT	XXX			N		5 days	40 hrs	
112	✓	124121212 5	replace dipole lead heaters	Program	Tue 7/2/13	Mon 7/8/13	SOT	XXX			N		5 days	40 hrs	
113	✓	124121213 0	remove cooldown valve on distribution can	Program	Tue 7/9/13	Mon 7/15/13	SOT	XXX			N		5 days?	40 hrs	
114	✓	124121213 5	design retrofit from Honeywell valves to Jlab valves	Program	Tue 7/16/13	Tue 7/23/13	SOT	XXX			N		6 days	48 hrs	
115	✓	124121214 0	install jlab valve cables to distribution can	Program	Wed 7/24/13	Thu 8/8/13	SOT	XXX			N		12 days	96 hrs	
116	✓	124121214 5	fab jlab retro fits for cooldown valves	Program	Fri 8/9/13	Wed 8/28/13	SOT	XXX			N		14 days	112 hrs	
117	✓	124121215 0	fab retrofits for Honeywell valves	Program	Thu 8/29/13	Wed 9/11/13	SOT	XXX			N		10 days	80 hrs	
118	✓	124121215 5	install retro fit valves	Program	Thu 9/12/13	Wed 9/25/13	SOT	XXX			N		10 days	80 hrs	
119	✓	124121216 0	connect cables to retrofit valves	Program	Thu 9/26/13	Wed 10/9/13	SOT	XXX			N		10 days	80 hrs	
120	✓	124121216 5	test retro fit valves	Program	Thu 10/10/13	Wed 10/16/13	SOT	XXX			N		5 days	40 hrs	
121	✓	124121217 0	cool down spectrometers	Program	Thu 10/17/13	Wed 11/13/13	SOT	XXX			N		20 days?	160 hrs	
122	✓	124121217 5	stabilized cryo system and set lead flows	Program	Thu 11/14/13	Fri 11/15/13	SOT	XXX					2 days?	32 hrs	
123	✓	124121218 0	start lead heaters and adjust ice management system	Program	Mon 11/18/13	Wed 11/20/13	SOT	XXX					3 days?	48 hrs	
124															
125															
126			**DVCS & GMP**		**Mon 8/19/13**	**Fri 2/14/14**							**130 days?**	**952 hrs**	
127	✓		remove septum platform from pivot		Mon 8/19/13	Tue 8/20/13							2 days	32 hrs	
128	✓		remove septum stand		Wed 8/21/13	Thu 8/22/13							2 days?	16 hrs	
129	✓		remove long beam line extensions		Fri 8/23/13	Mon 8/26/13							2 days?	16 hrs	
130	✓		install collimators on spectrometers		Tue 8/27/13	Fri 8/30/13							4 days?	32 hrs	
131	✓		align collimators		Mon 9/2/13	Thu 9/5/13							4 days?	32 hrs	
132	✓		connect collimator controls		Fri 9/6/13	Fri 9/6/13							1 day?	16 hrs	
133	✓		ops check collimators		Mon 9/9/13	Tue 9/10/13							2 days?	16 hrs	
134			survey collimators		Wed 9/11/13	Mon 9/16/13							4 days?	32 hrs	
135	✓		move both spectrometers to 25 deg.		Tue 9/17/13	Tue 9/17/13							1 day?	8 hrs	
136	✓		install target support spool		Wed 9/18/13	Wed 9/18/13							1 day?	16 hrs	
137	✓		install target chamber (90 Deg from normal)		Thu 9/19/13	Fri 9/20/13							2 days	32 hrs	
138	✓		install vacuum system		Mon 9/23/13	Fri 9/27/13							5 days?	40 hrs	
139	✓		laser alignment of target chamber		Mon 9/30/13	Tue 10/1/13							2 days?	16 hrs	
140	✓		fabricate and install new chamber O rings		Wed 10/2/13	Thu 10/3/13							2 days?	16 hrs	
141	✓		install downstream chamber window		Fri 10/4/13	Mon 10/7/13							2 days?	16 hrs	
142	✓		install downstream extension		Tue 10/8/13	Tue 10/8/13							1 day?	16 hrs	
143	✓		install exit beam pipe		Wed 10/9/13	Wed 10/9/13							1 day?	16 hrs	
144	✓		survey target chamber		Thu 10/10/13	Fri 10/11/13							2 days?	16 hrs	
145	✓		install target		Mon 10/14/13	Tue 10/15/13							2 days?	16 hrs	
146	✓		connect target instrumentation		Wed 10/16/13	Tue 11/12/13							20 days?	160 hrs	
147	✓		install Gmp angle instr.		Fri 10/18/13	Thu 10/24/13							5 days?	40 hrs	
148	✓		install target gas lines		Wed 11/13/13	Tue 11/19/13							5 days?	40 hrs	
149	✓		sting u tubes to distribution box		Wed 11/20/13	Thu 11/21/13							2 days?	16 hrs	
150	✓		sting u tubes to target		Fri 11/22/13	Fri 11/22/13							1 day	16 hrs	
151	✓		install solid target ladder		Mon 11/25/13	Tue 11/26/13							2 days?	16 hrs	
152	✓		align target		Wed 11/27/13	Mon 12/2/13							4 days?	32 hrs	
153	✓		close up target chamber		Tue 12/3/13	Tue 12/3/13							1 day	16 hrs	
154	✓		install upstream beam pipe		Wed 12/4/13	Thu 12/5/13							2 days?	16 hrs	
155	✓		pump down target chamber		Fri 12/6/13	Wed 12/11/13							4 days?	32 hrs	
156	✓		leak check target chamber		Thu 12/12/13	Fri 12/13/13							2 days?	16 hrs	
157	✓		pump, purge and leak check target		Mon 12/16/13	Thu 12/19/13							4 days?	32 hrs	
158	✓		ops check target controls		Fri 12/20/13	Wed 12/25/13							4 days?	32 hrs	
159	✓		cool down target		Thu 2/13/14	Thu 2/13/14							1 day	8 hrs	
160	✓		install supports on DVCS stand		Thu 12/26/13	Wed 1/8/14							10 days?	80 hrs	
161															
162	✓		BEAM		Fri 2/14/14	Fri 2/14/14							1 day?	0 hrs	
163															
164			**power supplies**		**Thu 10/17/13**	**Mon 12/2/13**							**33 days?**	**224 hrs**	
165	✓	124126000	Q1 chip and transistor replacement	Program	Thu 10/17/13	Wed 10/23/13	SOT	XXX					5 days?	40 hrs	
166		124126005	startup and ops check of Q1 power supplies	Program	Thu 11/21/13	Fri 11/22/13	SOT	XXX					2 days?	16 hrs	
167		124126010	Q2 chip and transistor replacement	Program	Thu 10/24/13	Wed 10/30/13	SOT	XXX					5 days?	40 hrs	
168		124126015	startup and ops check of Q2 power supplies	Program	Mon 11/25/13	Tue 11/26/13	SOT	XXX					2 days?	16 hrs	
169		124126020	Q3 chip and transistor replacement	Program	Thu 10/31/13	Wed 11/6/13	SOT	XXX					5 days?	40 hrs	
170		124126025	startup and ops check of Q3 power supplies	Program	Wed 11/27/13	Thu 11/28/13	SOT	XXX					2 days?	16 hrs	
171		124126030	Dipole chip and transistor replacement	Program	Thu 11/7/13	Wed 11/13/13	SOT	XXX					5 days?	40 hrs	
172		124126035	startup and ops check of Dipole power supplies	Program	Fri 11/29/13	Mon 12/2/13	SOT	XXX					2 days?	16 hrs	
173															
174			**detector work**	**Program**	**Mon 4/15/13**	**Wed 8/7/13**							**83 days?**	**1,328 hrs**	
175		124123000	pull left detector stack	Program	Mon 4/15/13	Mon 4/15/13	SOT	XXX			N		1 day?	16 hrs	
176		124123005	remove G2P detectors	Program	Tue 4/16/13	Fri 4/19/13					N		4 days?	64 hrs	
177		124123010	modify VDC mounts	Program	Mon 4/22/13	Fri 5/3/13	SOT	XXX			Y		10 days?	160 hrs	
178		124123015	add detector rail	Program	Mon 5/6/13	Fri 5/17/13	SOT	XXX			Y		10 days?	160 hrs	
179		124123020	install running detectors	Program	Mon 5/20/13	Thu 6/6/13					N		14 days?	224 hrs	
180		124123025	push in detector stack	Program	Fri 6/7/13	Mon 6/10/13	SOT	XXX			N		2 days?	32 hrs	
181		124123030	pull right detector stack	Program	Tue 6/11/13	Wed 6/12/13	SOT	XXX			N		2 days?	32 hrs	
182		124123035	remove G2P detectors	Program	Thu 6/13/13	Tue 6/18/13					N		4 days?	64 hrs	
183		124123040	modify VDC mounts	Program	Wed 6/19/13	Tue 7/2/13	SOT	XXX			Y		10 days?	160 hrs	
184		124123045	add detector rail	Program	Wed 7/3/13	Tue 7/16/13	SOT	XXX			Y		10 days?	160 hrs	
185		124123050	install running detectors	Program	Wed 7/17/13	Mon 8/5/13					N		14 days?	224 hrs	
186		124123055	push in detector stack	Program	Tue 8/6/13	Wed 8/7/13	SOT	XXX			N		2 days?	32 hrs	
187															
188			**end stuff**	**Program**	**Mon 8/19/13**	**Fri 2/14/14**	**XXXXXX**						**130 days?**	**196 hrs**	
189		124124000	inspect beam dump as requested by RADCON	Program	Mon 9/16/13	Mon 9/16/13	SOT	XXX					0.5 days?	4 hrs	Y
190		124124005	final removal	Program	Mon 1/20/14	Fri 1/31/14	SOT	XXX		N	N		10 days?	80 hrs	
191		124124010	start power supplies	Program	Mon 1/20/14	Tue 1/21/14	SOT	XXX		N	N		2 days?	16 hrs	
192		124124015	cleanup	Program	Mon 1/20/14	Fri 1/31/14	SOT	XXX		N	N		10 days?	80 hrs	
193		124124020	hot check out checklist	Program	Wed 1/22/14	Wed 1/22/14	SOT	XXX		N	N		1 day?	8 hrs	
194		124124025	hot checkout	Program	Wed 1/22/14	Wed 1/22/14	SOT	XXX			N		0 days?	0 hrs	
195		124124030	restore beam	Program	Mon 2/3/14	Mon 2/3/14	SOT	XXX		N	N		1 day?	0 hrs	
196		124124035	final checklist	Program	Tue 2/4/14	Tue 2/4/14	SOT	XXX		N	N		1 day?	8 hrs	
197		124124040	begin commissioning	Program	Tue 2/4/14	Tue 2/4/14	OPS	XXX		N	N		0 days?	0 hrs	
198		124124045	commissioning	Program	Wed 2/5/14	Thu 2/13/14					N		7 days?	0 hrs	
199		124124050	experiment start	Program	Fri 2/14/14	Fri 2/14/14					N		1 day?	0 hrs	
200															
201															
202															
203															
204			**stuff to do**	**Program**	**Mon 12/10/12**	**Tue 2/11/14**							**300 days?**	**2,944 hrs**	
205		124125000	network survey	Program	Mon 5/13/13	Mon 5/13/13	SOT	XXX					0 days	0 hrs	Y
206		124125000	grease bogies	Program	Mon 5/13/13	Mon 5/13/13	SOT	XXX					1 day?	8 hrs	
207		124125005	grease central bearing	Program	Tue 5/14/13	Tue 5/14/13	SOT	XXX					1 day?	8 hrs	
208		124125010	install water manifold on upper LCW	Program	Wed 5/15/13	Thu 5/23/13	SOT	XXX					7 days?	56 hrs	
209		124125	survey French home energy measurement	Program	Tue 6/25/13	Tue 6/25/13	SOT	XXX					0.5 days?	4 hrs	Y
210		124125015	install mvp quads and harps	Program	Fri 6/7/13	Wed 6/19/13	SOT	XXX					8.5 days?	68 hrs	
211		124125020	install manual flow meters on Q2/Q3	Program	Wed 6/19/13	Mon 7/1/13	SOT	XXX					8.5 days?	68 hrs	
212		124125025	grease shield house doors	Program	Tue 7/2/13	Tue 7/2/13	SOT	XXX					1 day?	8 hrs	
213		124125030	re-insulate warm return lines	Program	Wed 7/3/13	Thu 7/11/13	SOT	XXX					7 days?	56 hrs	
214		124125035	repair leaks in exit beam pipe	Program	Fri 7/12/13	Mon 7/22/13	SOT	XXX					7 days?	56 hrs	
215		124125040	install DP gauge on BB water system	Program	Tue 7/23/13	Mon 7/29/13	SOT	XXX					5 days?	40 hrs	
216		124125045	new lead guards on Q2/Q3	Program	Tue 7/30/13	Tue 7/30/13	SOT	XXX					1 day?	8 hrs	
217		124125050	new lead guards on Dipoles	Program	Wed 7/31/13	Wed 7/31/13	SOT	XXX					1 day?	8 hrs	
218		124125055	new lead guards on Q1s	Program	Thu 8/1/13	Thu 8/1/13	SOT	XXX					1 day?	8 hrs	
219		124125095	repair right transfer line	Program	Fri 8/2/13	Fri 8/2/13	SOT	XXX					1 day?	8 hrs	
220		124125100	remove maintenance jacks from both spectrometers	Program	Mon 8/5/13	Mon 8/5/13	SOT	XXX					1 day?	8 hrs	
221		124125105	finish vacuum line extension on IR Q3	Program	Tue 8/6/13	Tue 8/6/13	SOT	XXX					1 day?	8 hrs	
222		124125110	visual inspection of exit BP diffuser	Program	Wed 8/7/13	Wed 8/7/13	SOT	XXX					1 day?	8 hrs	
223		124125115	Upgrade/ reinforce BB support arm and extensions	Program	Thu 8/8/13	Thu 8/8/13	SOT	XXX					1 day?	8 hrs	
224		124125120	Rework PHPK cryo cans for pivot distribution	Program	Fri 8/9/13	Fri 8/9/13	SOT	XXX					1 day?	8 hrs	
225		124125130	install local valve controller to ex



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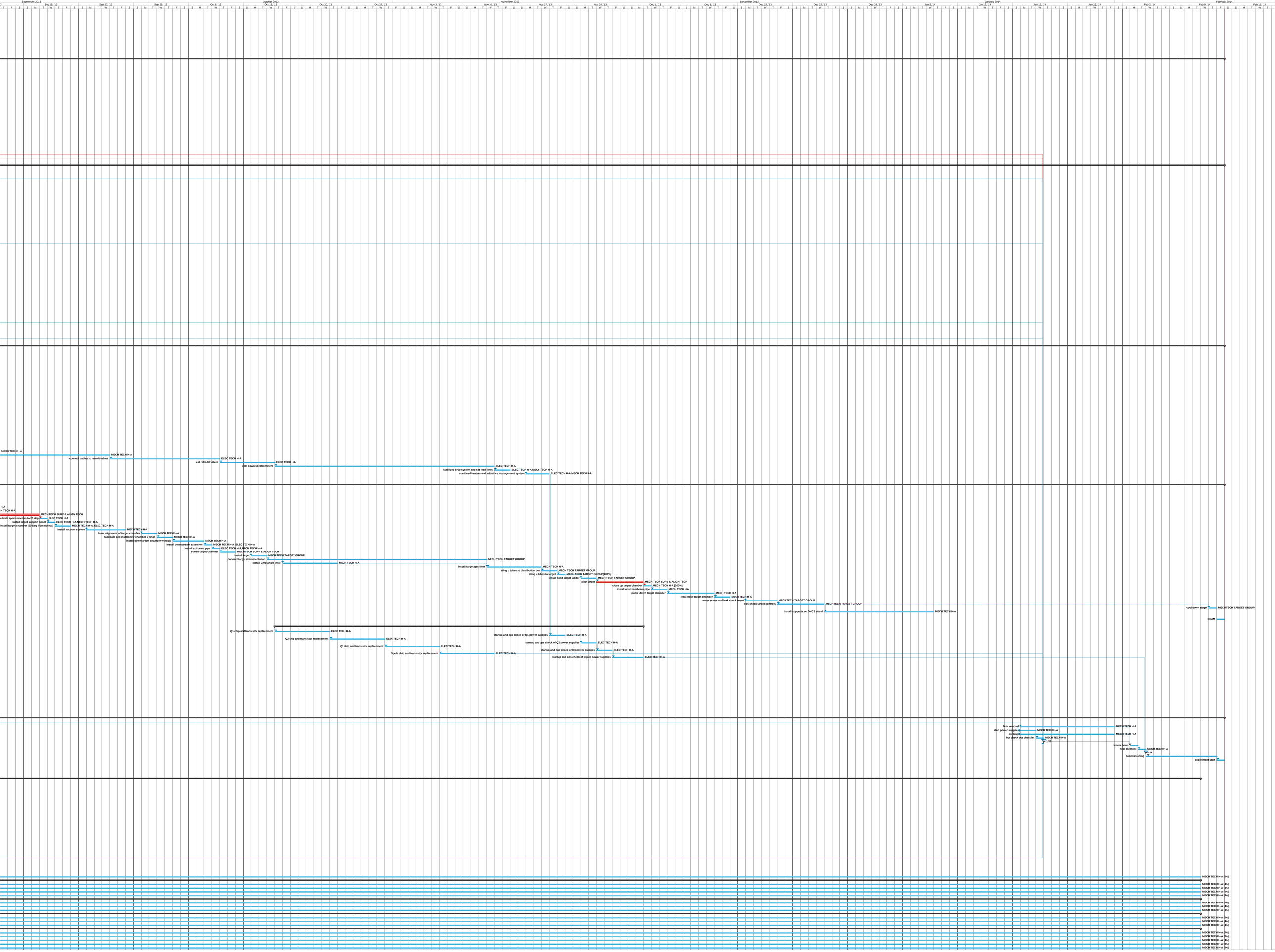

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