	U					THA		
1		G2P installation	Mon 5/16/11	Fri 12/9/11	XXXXXX			
2	į	Radcon	Mon 5/16/11	Mon 5/16/11				
3	į	Alignment	Mon 5/16/11	Mon 5/16/11				
4	_	Engineering electronics or electrical	Mon 5/16/11	Mon 5/16/11				
5		Engineering mechanical	Mon 5/16/11	Mon 5/16/11				
6		engineering Vacuum	Mon 5/16/11	Mon 5/16/11				
7		Hall A techs or users	Mon 5/16/11	Mon 5/16/11				
8		target group	Mon 5/16/11	Mon 5/16/11				
9		Ops software	Mon 5/16/11	Mon 5/16/11				
10		Ops software	1011 3/10/11	1011 3/ 10/ 11				
11								
		haana lina nuan want	Man Elaciaa	Mon 7/11/11	vvvvv			
12		beam line prep work	Mon 5/16/11					
13		QA raster, calorimeter and magnet stands	Mon 5/16/11	Mon 5/16/11	SOC			
14		install power for slow raster and calorimeter	Mon 5/16/11	Mon 5/16/11	SOC			
15	Ť	install power in Hall for FZ magnets	Mon 5/16/11	Mon 5/16/11				
16	İ	fab water manifolds for FZ magnets	Mon 5/16/11	Mon 5/16/11				
17	Ť	rework power connections for septum magnet	Mon 5/16/11	Mon 5/16/11				
18	į	rework water manifolds for septum magnet	Mon 5/16/11	Mon 5/16/11				
19	į	design and fab new electrical shields for septum magnet	Mon 5/16/11	Mon 5/16/11				
20	i	fab new beam pipe for septum magnet	Mon 5/16/11	Mon 5/16/11				
21	•	field map septum magnet	Mon 5/16/11	Mon 5/16/11				
22	i	pre survey beam dump	Mon 5/16/11	Mon 5/16/11			٧	
23	1	pre survey target can	Mon 5/16/11	Mon 5/16/11			V	
24	H	pre survey target magnet	Mon 5/16/11	Mon 5/16/11			V	
25	· I	close and unplug beam line vacuum valves	Mon 5/16/11	Mon 5/16/11	SOC		N	
26	I	turn off and valve off turbo pumps	Mon 5/16/11	Mon 5/16/11	SOC		N	
27	I.	turn off diff pump station	Mon 5/16/11	Mon 5/16/11	SOC		N	
	<u> </u>				SOC			
28	Ţ	bleed up entrance beam line from diff pump to target	Mon 5/16/11	Mon 5/16/11			N	
29	!	reposition all metal beam line valve	Mon 5/16/11	Mon 5/16/11	SOC		N	
30	!	Target fiduc. 1.Mag:Top March 11	Mon 5/16/11	Mon 5/16/11			У	
31	!	Target fiduc. 2.Top:Can Mar 11	Mon 5/16/11	Mon 5/16/11			У	
32	Ť.	Septa fiduc.(new locations) March 11	Mon 5/16/11	Mon 5/16/11			У	
33	<b>III</b>	Platform - check target mount	Fri 6/10/11	Fri 6/10/11			У	
34	<b>Ⅲ</b> 🛉	Target top flange tube align	Fri 6/10/11	Fri 6/10/11			у	
35	<b>III</b>	Target fiduc. 2.Top:Can	Mon 7/11/11	Mon 7/11/11			У	
36	<b>III</b>	Dump / Sieve fid.	Mon 7/11/11	Mon 7/11/11			У	
37	_							
38	į	RadCon Hold	Mon 5/16/11	Fri 5/20/11	SOC			
39	i	post beam checklist	Mon 5/16/11	Mon 5/16/11	SOC			
40	•							
41		LCW work	Mon 5/23/11	Mon 6/20/11	XXXXXX			
	<b>i</b>	install new manifold to facilitate FZ power supplies	Mon 5/23/11	Mon 6/6/11	SOC		N	yes
		install new manifolds to facilitate FZ magnets	Tue 6/7/11	Mon 6/20/11	SOC		N	,00
		motal now mainloids to identitate i 2 magnets	140 0/1/11	141011 0/20/11	500		1	
			Dog 1					
Th:	a ala a d	ule is managed by Ed Folts Dt. # 7057 Thr. 5/10/11	Page 1					
ı nıs	scnea	ule is managed by Ed Folts Ph # 7857 Thu 5/12/11						

Finish

Risk code pre THA

Task Hazard Analysis

Risk code

post THA

Atlis HA list Hot Work OSP, lift plan

ID

0

ID		Task Name	Start	Finish	Risk code pre THA	Task Hazard Analysis	Risk code post	Atlis	HA list	Hot Work	OSP, lift plan
4.4	0						THA				
44 45											
46		remove EP	Mon 5/23/11	Wed 6/1/11							
	<b>III</b>	Radcon coverage	Mon 5/23/11	Mon 5/23/11							
	<b>III</b>	disconnect cables	Mon 5/23/11	Mon 5/23/11	SOC			N			
49	<b>III</b>	disconnect vacuum system	Tue 5/24/11	Tue 5/24/11	SOC			N			
	<b>III</b>	disconnect beam line	Wed 5/25/11	Wed 5/25/11	SOC			N			
	<b>Ⅲ</b> •	remove lower detector system	Thu 5/26/11	Thu 5/26/11				N			
	<b>■</b> †	remove EP stands	Fri 5/27/11	Fri 5/27/11							
	<b>III</b>	remove stand foundations	Tue 5/31/11	Tue 5/31/11							
	<b>Ⅲ</b> •	move EP system to ESB	Wed 6/1/11	Wed 6/1/11	SOC			N			
55 56		Compton maintenance	Mon 5/16/11	Fri 12/9/11							
	<b></b>	Radcon hold	Tue 7/5/11	Tue 7/5/11							
58	<u> </u>	bleed up beam line	Tue 7/5/11	Tue 7/5/11	SOC						
59		remove blank flange for detector installation	Wed 7/6/11	Wed 7/6/11	SOC						
60	<b>Ⅲ</b> •	install electron detector package	Thu 7/7/11	Thu 7/7/11							
61	į i	pump down vacuum system	Fri 7/8/11	Mon 7/11/11	SOC						
62	i	leak check	Tue 7/12/11	Tue 7/12/11	SOC						
63		bake affected areas bleed up for maintenance	Wed 7/13/11	Wed 7/13/11							
64	Ť	connect electronics	Thu 7/14/11	Mon 7/18/11				N			
65	_	operational checkout of electronics	Tue 7/19/11	Fri 7/29/11	SOC			N			
66	<u></u>	open laser enclosure for work	Fri 7/8/11	Fri 7/8/11				N			
67 68	<u> </u>	replace laser mirrors	Mon 7/11/11 Mon 7/18/11	Fri 7/15/11 Tue 7/19/11				N			
69	7	align detector and laser as requested (to be defined later)	IVIUI1 7/10/11	Tue // 19/11				У			
70		install slow raster	Mon 6/6/11	Wed 8/3/11	XXXXXX						
-	<b>III</b>	survey holes for stand	Mon 6/6/11	Tue 6/7/11				V	,		
	<b>=</b>	Drill holes	Wed 6/8/11	Thu 6/9/11							
	<b>III</b>	mount stand	Fri 6/10/11	Mon 6/13/11							
74	<b>III</b>	survey stand	Tue 6/14/11	Wed 6/15/11	SOC						
	<b>Ⅲ</b> 🛉	grout stand	Thu 6/16/11	Fri 6/17/11	SOC						
	<b>Ⅲ</b> •	grout set up time	Mon 6/20/11	Tue 6/21/11	SOC						
	<b>■</b> •	install slow raster	Wed 6/22/11	Wed 6/22/11							
78	<b>III</b>	pump down beam line	Fri 6/24/11	Mon 6/27/11							
	<b>III</b>	connect beam line	Thu 6/23/11	Thu 6/23/11							
	<b>≡</b> †	survey slow raster install coils	Tue 6/28/11 Thu 6/30/11	Wed 6/29/11 Thu 6/30/11				y			
82	<b>=</b>	install and connect raster controls and power	Fri 7/1/11	Fri 7/1/11				N N			
83	<b>==</b>	ops check slow raster	Tue 7/5/11	Tue 7/5/11				N			
84	<b>===</b>	software checkout and ops check	Mon 8/1/11	Wed 8/3/11				I V			
85		22-Mail Street and Spa Street		1.03 0/0/11							
86		install calorimeter	Mon 6/6/11	Fri 8/12/11	XXXXXX						
	I		1					I.	1		

ID		Task Name	Start	Finish	Risk code pre THA	Task Hazard Analysis	Risk code post	Atlis	HA list	Hot Work	OSP, lift plan
0.7	0	average below for story d	NA 0/0/4	T 0/2/11	000		THA				
	<b>III</b>	survey holes for stand	Mon 6/6/11	Tue 6/7/11				)	/		
88 89	<b>Ⅲ †</b> <b>Ⅲ †</b>	Drill holes mount stand	Wed 6/8/11 Fri 6/10/11	Thu 6/9/11 Mon 6/13/11							
90	<b>==</b>	survey stand	Tue 6/14/11	Wed 6/15/11				,	,		
91		grout stand	Thu 6/16/11	Fri 6/17/11				,			
92	•	set up time	Mon 6/20/11	Tue 6/21/11							
93	<b>i</b>	install calorimeter	Wed 6/22/11	Wed 6/22/11							
94	<b>III</b>	connect beam line	Thu 6/23/11	Thu 6/23/11							
95	<b>III</b>	pump down beam line	Fri 6/24/11	Fri 6/24/11							
96	į	leak check beam line	Mon 6/27/11	Mon 6/27/11	SOC						
97	<b>III</b>	connect motion and cooling lines	Tue 6/28/11	Tue 6/28/11							
98	<b>■</b> †	survey calorimeter	Wed 6/29/11	Wed 6/29/11				)	/		
99	<b>==</b>	install controls	Tue 7/5/11	Wed 7/6/11							
100		ops check	Thu 7/7/11	Thu 7/7/11 Fri 8/12/11							
101	<b>==</b>	software checkout and ops check	Mon 8/8/11	Ff1 8/12/11							
102		remove dual quads & short girder	Thu 7/7/11	Wed 8/10/11	<b>VVVVV</b>						
	<b>III</b>	Radcon support	Thu 7/7/11	Thu 7/7/11							
105		disconnect water and power on dual quad assembly	Thu 7/7/11	Thu 7/7/11							
106	•	bleed up vacuum	Fri 7/8/11	Fri 7/8/11							
107	<b>i</b>	disconnect vacuum lines	Mon 7/11/11	Tue 7/12/11	SOC						
108		remove quad girder	Wed 7/13/11	Wed 7/13/11							
109		remove lead from 3 inch beam line	Thu 7/14/11	Thu 7/14/11							
110		install new 3 inch beam line	Fri 7/15/11	Fri 7/15/11							
	<b>III</b>	install beam line and corrector support girder	Mon 7/18/11	Mon 7/18/11							
112		install controls and power cabling	Tue 7/19/11	Fri 7/22/11							
113		install BLM	Mon 7/25/11	Mon 7/25/11							
114		install controls	Tue 7/26/11	Wed 7/27/11							
		connect beam line	Thu 7/28/11	Thu 7/28/11							
116 117	<b>==</b>	install vacuum pump and controls  pump down and leak check girder	Fri 7/29/11 Wed 8/3/11	Tue 8/2/11 Thu 8/4/11							
	<b>i</b>	survey beam line	Fri 8/5/11	Fri 8/5/11				,	,		
119	<b>III</b>	reinstall lead removed for 3 inch beam pipe	Wed 8/10/11	Wed 8/10/11				,			
120		ops check	Mon 8/8/11	Tue 8/9/11							
121		( ) Sittle ( )									
122		remove girder	Mon 5/23/11	Thu 6/2/11	XXXXXX						
123	<b>i</b>	Radcon support	Mon 5/23/11	Mon 5/23/11							
124	<b>III</b>	remove lead shielding	Mon 5/23/11	Fri 5/27/11							
125	<b>III</b>	disconnect beam line diagnostics	Mon 5/23/11	Mon 5/23/11							
	<b>=</b>	disconnect vacuum equipment	Tue 5/24/11	Wed 5/25/11							
	<b>III</b>	remove water and control lines	Thu 5/26/11	Fri 5/27/11							
	<b>■</b> †	remove girder	Tue 5/31/11	Tue 5/31/11							
129	<b></b>	remove girder stands	Wed 6/1/11	Wed 6/1/11							

ID		Task Name	Start	Finish	Risk code pre THA	Task Hazard Analysis	Risk code post	Atlis	HA list	Hot Work	OSP, lift plan
	0		<b>T</b> I 2/2/4/				THA				
130	<b>==</b>	remove stand grout	Thu 6/2/11	Thu 6/2/11							
131					100000						
132		install FZ magnets	Mon 5/16/11	Fri 11/4/11							
133	<b>i</b>	survey holes for stands	Mon 6/6/11	Tue 6/7/11				У			
134	<b>III</b>	Drill holes	Wed 6/8/11	Thu 6/9/11							
135	<b>■</b>	mount stands	Fri 6/10/11	Mon 6/13/11							
136	<b>III</b>	survey stands	Tue 6/14/11	Wed 6/15/11				У			
137	<b>III</b>	grout stands	Thu 6/16/11	Fri 6/17/11							
138	<b>■</b>	grout set up time	Mon 6/20/11	Tue 6/21/11	SOC						
139	<b>III</b>	install cable tray	Wed 8/3/11	Fri 8/5/11				N			
140	Ť	run magnet power cables	Mon 8/8/11	Tue 8/9/11				N			
141		run instrumentation cables	Wed 8/10/11	Thu 8/11/11							
142		connect AC power to power supplies	Fri 8/12/11	Mon 8/15/11	SOC						
143											
144	<b>.</b>	install FZ magnets	Tue 8/16/11	Mon 8/29/11							
145	7	survey FZ magnets	Tue 8/30/11	Fri 9/2/11				У			
146		install and connect DC power to magnets	Tue 9/6/11	Tue 9/6/11							
147		ops check magnets	Wed 9/7/11	Tue 9/13/11							
148		install FZ beam line supports	Wed 9/14/11	Fri 9/16/11							
149	<b>III</b>	install beam lines and beam diagnostics	Mon 9/19/11	Fri 9/23/11							
150	<b>III</b>	install vacuum system	Mon 9/26/11	Fri 9/30/11							
151	<b>III</b>	reposition all metal valve	Mon 10/3/11	Mon 10/3/11							
152	<b>III</b>	install instrumentation	Tue 10/4/11	Fri 10/7/11							
153		pump down beam line	Mon 10/10/11	Tue 10/11/11	SOC						
154		leak check beam lines	Wed 10/12/11	Thu 10/13/11							
155	<b>III</b>	survey beam lines	Fri 10/14/11	Tue 10/18/11				У			
156		ops check	Wed 10/19/11	Fri 10/21/11							
157	<b>IIII</b>	software checkout and ops check	Mon 10/31/11	Fri 11/4/11							
158											
159											
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169											
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ID	6	Task Name	Start	Finish	Risk code pre THA	Task Hazard Analysis	Risk code post THA	Atlis	HA list	Hot Work	OSP, lift plan
173	_						ITA				
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202											
203											
204											
205			M 5/40/44	NA 5/40/44							
206		Hall A from here down	Mon 5/16/11	Mon 5/16/11							
207											
208		target / septa prep work	Mon 5/16/11								
209		modify septa platform	Mon 5/16/11					N			
210		install 3rd coil set in septum magnet	Mon 5/16/11					N			
211		pre assemble align target support on septa platform	Mon 5/16/11	Mon 5/16/11	SOC			N			
212		_									
213		cryo work	Mon 5/16/11								
214	<u> </u>	warm up both spectrometers	Mon 5/16/11					N			
215	### <b>T</b>	pump all magnets	Tue 5/31/11	Mon 6/6/11	SOC			N			
This	schedi	ule is managed by Ed Folts Ph # 7857 Thu 5/12/11	Page 5								

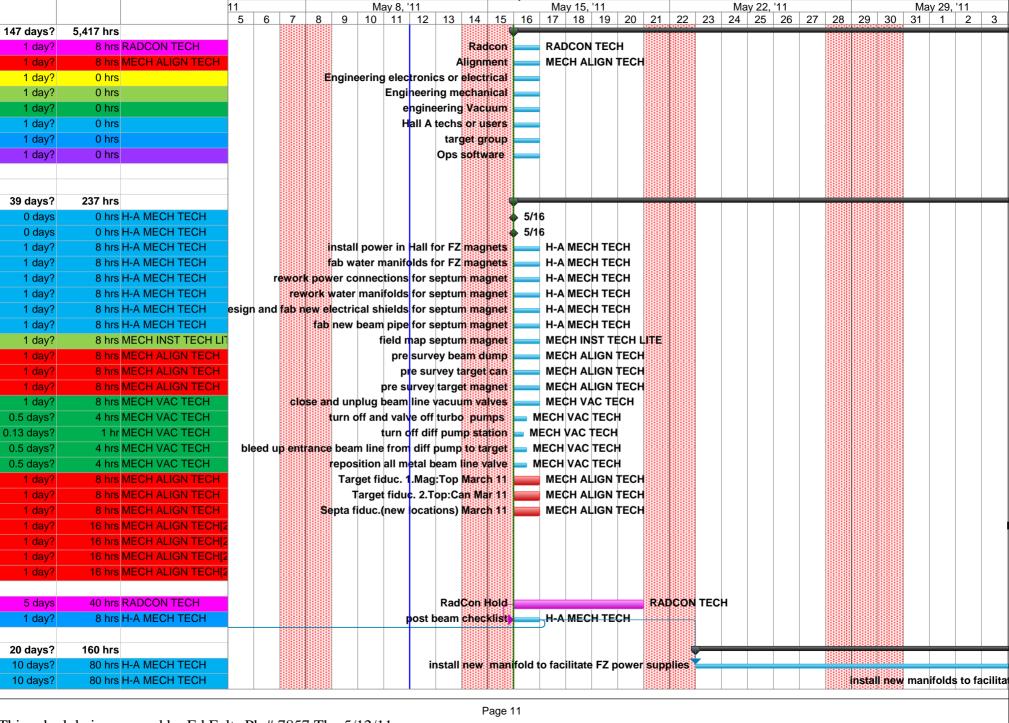
ID		Task Name	Start	Finish	Risk code pre THA	Task Hazard Analysis	Risk code post	Atlis	HA list	Hot Work	OSP, lift plan
216	<b>0</b> ⊞ <b>i</b>	pump all cryo lines	Mon 6/13/11	Fri 6/17/11	2	A-08-028-T	THA 1	N			
	<b>Ⅲ</b>	replace Q1 JT valve heads with JLab valves	Mon 6/27/11	Fri 7/1/11		A-00-020-1	'	N			
218	<b>=</b>	replace dipole LN2 probes	Tue 7/5/11	Tue 7/5/11				N			
219	<b>==</b>	replace magnet pressure gauges	Thu 7/7/11	Mon 7/11/11				N			
220		repair left Q1 leads	Thu 7/14/11	Wed 7/20/11				N			
221		replace left Q1 vacuum seals	Thu 7/28/11	Tue 8/2/11				N			
222		replace all Q1 110 vac plugs due to radiation damage	Thu 8/4/11	Mon 8/8/11				N			
223	<b>=</b>	calibrate Ln2 II probes	Mon 8/15/11	Tue 8/16/11	2	A-08-028-T	1	N			
224	<b>=</b>	Calibrate weha valves	Mon 8/29/11	Fri 9/2/11		A-08-028-T	1	N			
225	<b>=</b>	repair dipole He LL probe	Mon 9/12/11	Fri 9/16/11	SOC			N			
226	<b>III</b>	replace ball valves on magnet cryo bypass lines	Mon 9/19/11	Wed 9/21/11	2	A-08-028-T	1	N			
227	•	repair right Q2 LN2 valve	Mon 5/16/11	Wed 5/18/11	2	A-08-028-T	1	N			
228	i	remove moeller u tube from pivot	Mon 5/16/11	Mon 5/16/11	2	A-08-028-T	1	N			
229	i	remove Y can from left Q1	Mon 5/16/11	Mon 5/16/11	3	A-08-028,017-T	1	N			
230	<b>i</b>	cool down both spectrometers	Thu 9/1/11	Thu 10/13/11							
231	_										
232		Detector work	Mon 6/6/11	Fri 7/29/11	XXXXXX						
233	<b>III</b>	roll out left detector	Mon 6/6/11	Mon 6/6/11	SOC			N			
234	<b>III</b>	pull out SRC detectors	Mon 6/13/11	Tue 6/14/11	3	A-08-017-T	1	N			
235	<b>III</b>	install G2P detectors	Mon 6/20/11	Fri 6/24/11		A-08-017-T	1	N			
236	<b>Ⅲ</b> 🛉	roll in left detector	Mon 6/27/11	Mon 6/27/11	SOC			N			
237	<b>Ⅲ</b> †	clear balcony and close doors	Wed 6/29/11	Wed 6/29/11	SOC			N			
238	_										
239	<b>III</b>	roll out right detector	Tue 7/5/11	Tue 7/5/11	SOC			N			
240	<b>Ⅲ</b> †	pull out SRC detectors	Mon 7/11/11	Tue 7/12/11	3	A-08-017-T	1	N			
	<b>⊞</b> †	install G2P detectors	Mon 7/18/11	Thu 7/21/11		A-08-017-T	1	N			
242	▦.	roll in left detector	Mon 7/25/11	Mon 7/25/11				N			
243	<b>Ⅲ</b> †	clear balcony and close doors	Fri 7/29/11	Fri 7/29/11	SOC			N			
244					MANAM						
245		remove target	Mon 5/16/11	Thu 7/7/11				N.			
246		warm up target	Mon 5/16/11	Thu 5/19/11				N			
	<b>III</b>	Radcon support	Fri 5/20/11	Fri 5/20/11 Fri 5/20/11				N.I			
	<b>Ⅲ †</b>	bleed up chamber	Fri 5/20/11	Fri 5/20/11 Mon 5/23/11		A-08-028-T	1	N			
249 250	<b>=</b>	de-sting cryo disconnect target	Mon 5/23/11 Tue 5/24/11	Fri 6/3/11		A-00-020-1	ı	N N			
	<b>Ⅲ</b>	remove target from chamber	Mon 6/6/11		_	Δ_08_029 T	1	·			
	<b>Ⅲ †</b> <b>Ⅲ †</b>	<u> </u>	Tue 6/7/11	Mon 6/6/11 Tue 6/7/11		A-08-028-T	'	N N			
	<b>Ⅲ I</b> ■	remove vacuum system remove beam pipes	Wed 6/8/11	Wed 6/8/11				N			
254	<b>Ⅲ</b> †	remove upper chamber	Thu 6/9/11	Thu 6/9/11		A-08-017-T	1	N			
	<b>Ⅲ</b>	remove lower chamber	Fri 6/10/11	Fri 6/10/11		A-08-017-T	1	N			
	<b>=</b>	remove chamber support spool	Mon 6/13/11	Mon 6/13/11		A-08-017-T	1	N			
	<b>==</b>	reconfigure target lines and cables for new target	Tue 6/14/11	Thu 6/23/11		A-00-017-1	'	N			
258		reconligure target lines and cables for new target	108 0/14/11	1110 0/23/11	300			IN			
								<u> </u>			

ID	0	Task Name	Start	Finish	Risk code pre THA	Task Hazard Analysis	Risk code post THA	Atlis	HA list	Hot Work	OSP, lift plan
259	_	remove Big Bite	Mon 5/16/11	Thu 7/7/11	XXXXXX		ITIA				
260	i	Radcon Support	Mon 5/16/11	Mon 5/16/11							
261	ii i	disconnect BB detector	Mon 5/16/11	Fri 5/20/11	SOC			N			
262	<b>III</b>	disconnect water	Mon 5/23/11	Mon 5/23/11	SOC			N			
263	<b>III</b>	disconnect and move inst. Interlocks etc	Tue 5/24/11	Wed 5/25/11	SOC			N			
264	<b>Ⅲ</b> 🛉	disconnect BB power	Thu 5/26/11	Fri 5/27/11	SOC			N			
265	<b>Ⅲ</b> 🛉	install extension rails on BB stand	Tue 5/31/11	Tue 5/31/11	3	A-08-017-T	1	N			
266	<b>III</b>	reroute BB power lines for septum	Thu 6/2/11	Fri 6/3/11				N			
	<b>Ⅲ</b> 🛉	role back detector platform	Mon 6/6/11	Mon 6/6/11				N			
	<b>III</b>	rig and move detector	Tue 6/7/11	Tue 6/7/11	3	A-08-017-T	1	N			
	<b>III</b>	remove detector platform	Wed 6/8/11	Wed 6/8/11		A-08-017-T	1	N			
	<b>Ⅲ</b> •	partial rollback of BB for field clamp removal	Thu 6/9/11	Thu 6/9/11							
	<b>Ⅲ</b> •	rig and move field clamp including collimator to storage position	Fri 6/10/11	Fri 6/10/11		A-08-017-T	1	N			
	<b>■</b> •	rollback BB for door removal	Mon 6/13/11	Mon 6/13/11				N			
	<b>■</b> •	remove shielding doors to storage position	Tue 6/14/11	Wed 6/15/11		A-08-017-T	1	N			
	<b>⊞ </b> †	remove shielding on top and around BB	Thu 6/16/11	Fri 6/17/11		A-08-017-T	1	N			
	<b>■ i</b>	install pink stand	Mon 6/20/11	Mon 6/20/11		A-08-017-T	1	N			
	<b>■ i</b>	Add supports to BB feet	Tue 6/21/11	Tue 6/21/11				N			
	<b>⊞</b> †	remove feet from BB	Wed 6/22/11	Wed 6/22/11		A-08-017-T	1	N			
	<b>⊞</b> †	rig and move BB magnet to storage position	Thu 6/23/11	Fri 6/24/11				N			
	<b>⊞</b> †	rig feet and move to storage position	Mon 6/27/11	Mon 6/27/11		A-08-017-T	1	N			
	<b>ij</b>	rollers and other support equipment to storage position	Tue 6/28/11	Tue 6/28/11		A-08-017-T	1	N			
	<b>ij</b>	remove rail extensions	Wed 6/29/11	Wed 6/29/11		A-08-017-T	1	N			
	<b>■</b> •	remove pink stand	Thu 6/30/11	Thu 6/30/11		A-08-017-T	1	N			
	<b>■</b> •	rig and move BB stand	Fri 7/1/11	Fri 7/1/11		A-08-017-T		N			
	<b>≡</b> i	Rotate right spect. To 12.5 degrees	Tue 7/5/11	Tue 7/5/11 Wed 7/6/11				IN IN			
	⊞ ⊞ <b>i</b>	Radcon support	Wed 7/6/11 Wed 7/6/11	Wed 7/6/11 Wed 7/6/11				N			
	<b>Ⅲ [</b>	move electronics to storage move Hadron detector frame to PSB	Thu 7/7/11	Thu 7/7/11				IN N			
288	T	move riauron detector frame to FSB	1110 1/1/11	111u 1/1/11	300			1			
289		install septum and target	Tue 7/5/11	Thu 9/1/11	ХХХХХХ						
	<b>i</b>	install septum support stand	Tue 7/5/11	Wed 7/6/11		A-08-017-T	1	N			
	<b>#</b>	align stand with laser	Thu 7/7/11	Thu 7/7/11		7,00011	1	N			
		install beam right access platform and stairs	Fri 7/8/11	Fri 7/8/11		A-08-017-T	1	I.			
293	<b>■ T</b>	RadCon Hold	Mon 7/11/11	Fri 7/15/11				N			
		install septum platform on support stand	Mon 7/11/11	Mon 7/11/11		A-08-017-T	1	N			
		install septum magnet on platform	Tue 7/12/11	Tue 7/12/11		A-08-017-T	1	N			
	<b>III</b>	install tread plated and dump support on platform	Wed 7/13/11	Wed 7/13/11		A-08-017-T	1	N			
		pre alignment of septum magnet	Thu 7/14/11	Thu 7/14/11							
	<b>=</b>	install beam dump between magnet and target	Fri 7/15/11	Mon 7/18/11		A-08-017-T	1	N			
	<u> </u>	install target chamber support on platform	Tue 7/19/11	Tue 7/19/11		A-08-017-T	1	N			
300		pre align beam dump with laser	Wed 7/20/11	Wed 7/20/11							
301	<b>III</b>	RadCon Hold	Mon 7/25/11	Tue 7/26/11				N			

ID		Task Name	Start	Finish	Risk code pre THA	Task Hazard Analysis	Risk code post	Atlis	HA list	Hot Work	OSP, lift plan
202	0	install suit been pine in magnet	Tue 7/00/44	Tue 7/00/44	200		THA	N I			
302	<b>Ⅲ</b> <b>Ⅲ</b> •	install exit beam pipe in magnet install shielding between target and magnet	Tue 7/26/11 Wed 7/27/11	Tue 7/26/11 Thu 7/28/11				N N			
304		install target chamber into chamber support	Fri 7/29/11	Fri 7/29/11		A-08-017-T	1	N			
305		roll septum/target platform into position	Mon 8/1/11	Mon 8/1/11		A-00-017-1	-	N			
306		lower and position septum platform	Tue 8/2/11	Tue 8/2/11				N			
307	i	install catwalk on right access platform	Wed 8/3/11	Wed 8/3/11		A-08-017-T	1	N			
308	i i	install upper platform stairs	Thu 8/4/11	Thu 8/4/11		A-08-017-T	1	N			
309	•										
310	<b>III</b>	install target dewar and stand	Fri 8/5/11	Fri 8/5/11	3	A-08-017-T	1	N			
311		connect dewar controls	Mon 8/8/11	Tue 8/9/11	SOC			N			
312		install dewar U tubes and return lines	Wed 8/10/11	Thu 8/11/11	3	A-08-017-T	1	N			
313		install beam lines	Fri 8/12/11	Fri 8/12/11	SOC			N			
314	<b>Ⅲ</b> †	install Helium bags	Mon 8/15/11	Mon 8/15/11				N			
315		install target vacuum pump power	Tue 8/16/11	Wed 8/17/11				N			
316		install target vacuum pump plumbing	Thu 8/18/11	Tue 8/23/11		A-08-017-T	1	N			
317		install target vacuum system instr. and controls	Wed 8/24/11	Fri 8/26/11				N			
318	<b>III</b>	milestone for moving magnetto the Hall	Thu 9/1/11	Thu 9/1/11							
319			<b>T</b> 1 0/4/44	<b>T</b> I 0/45/44	•						
320		re-assemble target assembly in Hall	Thu 9/1/11 Thu 9/1/11	Thu 9/15/11		A-08-017-T	4				
321	<b>==</b>	move target parts to Hall install chamber into rotating support ring	Fri 9/2/11	Thu 9/1/11 Fri 9/2/11		A-08-017-T	1				
323	<b>III</b>	install shield in chamber	Tue 9/6/11	Tue 9/6/11		A-08-017-T	1				
324		install magnet into chamber	Wed 9/7/11	Wed 9/7/11		A-08-017-T	1	N			
325	i	align magnet in chamber (check as found)	Thu 9/8/11	Thu 9/8/11		71 00 017 1		V			
326	•	install refrigerator	Fri 9/9/11	Fri 9/9/11							
327	<b>III</b>	install target and refrig. Inst, and controls	Mon 9/12/11	Tue 9/13/11	SOC			N			
328		test magnet rotation system	Wed 9/14/11	Wed 9/14/11	SOC			N			
329	===	Ops software support	Thu 9/15/11	Thu 9/15/11	OPS						
330		ops check motion mechanism	Thu 9/15/11	Thu 9/15/11	SOC						
331											
332		install target assembly on pivot	Fri 9/16/11	Fri 11/18/11		_					
333	<b>III</b>	install refrigerator pump on upper target balcony	Fri 9/16/11	Fri 9/16/11		A-08-017-T	1	N			
334	<b>III</b>	roll septum/target platform into position	Mon 9/19/11	Mon 9/19/11				N			
335 336		lower and position septum platform	Tue 9/20/11 Wed 9/21/11	Tue 9/20/11 Thu 9/22/11				N			
337		align septum magnet align target chamber	Fri 9/23/11	Mon 9/26/11				У			
338		align magnet in chamber (check as found	Tue 9/27/11	Tue 9/27/11				У			
339	H	final alignment of Dump	Wed 9/28/11	Fri 9/30/11				y			
340	<b>i</b>	both spectrometers to 12.5 deg	Mon 10/3/11	Mon 10/3/11				N			
341	•	install catwalk on right access platform	Mon 10/3/11	Mon 10/3/11		A-08-017-T	1	N			
	- ·	survey both spectrometers	Tue 10/4/11	Tue 10/4/11							
342	<b>****</b>										
	<b>III</b> •	install upper platform stairs	Tue 10/4/11	Tue 10/4/11	3	A-08-017-T	1	N			
342			Tue 10/4/11 Wed 10/5/11	Tue 10/4/11 Wed 10/5/11		A-08-017-T	1	N N			

ID		Task Name	Start	Finish	Risk code pre THA	Task Hazard Analysis	Risk code post	Atlis	HA list	Hot Work	OSP, lift plan
	0						THA				
345	1	align beam lines	Thu 10/6/11	Thu 10/6/11				У			
346	<b>III</b>	install Helium bags	Fri 10/7/11	Fri 10/7/11	SOC			N			
347		install target vacuum pump power		Wed 10/12/11	0	A 00 047 T	4	N			
348		install target vacuum pump plumbing install target vacuum system instr. and controls	Thu 10/13/11 Mon 10/17/11	Fri 10/14/11 Tue 10/18/11	3 SOC	A-08-017-T	1	N N			
	<b>III</b>	connect target vacuum system	Wed 10/19/11	Fri 10/21/11	300			N			
351	<b>===</b>	leak check target vacuum system	Mon 10/24/11	Tue 10/25/11	SOC			N			
352	<b>III</b>	install target chamber windows	Wed 10/26/11	Wed 10/26/11	SOC			N			
353	<b>III</b>	pump down chamber	Thu 10/27/11	Fri 10/28/11	SOC			N			
354	<b>i</b>	leak check chamber	Mon 10/31/11	Mon 10/31/11	SOC			N			
355	<b>III</b>	insert target refrigerator	Tue 11/1/11	Thu 11/3/11	3	A-08-017-T	1	N			
356		sting dewar to refrig and refrig to target	Fri 11/4/11	Fri 11/4/11	SOC			N			
357		pump and purge target cryo system	Mon 11/7/11	Tue 11/8/11	SOC			N			
358		fill dewar	Wed 11/9/11	Fri 11/11/11	SOC			N			
359	<b>Ⅲ</b> 🛉	cool down target cryo system	Mon 11/14/11	Tue 11/15/11	SOC			N			
360	<b>III</b>	test target refrigerator	Tue 11/15/11	Wed 11/16/11	SOC			N			
361		ops check target system	Thu 11/17/11	Fri 11/18/11	SOC			N			
362	<b>Ⅲ</b> 🛉	software checkout and ops check	Mon 10/31/11	Fri 11/4/11	OPS						
363											
364		outages	Fri 5/20/11	Mon 6/6/11							
365	<b>===</b>	May power outage Saterday	Fri 5/20/11	Mon 5/23/11							
366	<b>=</b>	June power outage Saterday	Fri 6/3/11	Mon 6/6/11							
367			<b>N</b> 40/04/44	<b>5</b> : 40/0/44	www						
368	-	end stuff	Mon 10/31/11	Fri 12/9/11	SOC						
369 370	<b>Ⅲ</b> Ⅲ •	inspect beam dump as requested by RADCON	Mon 10/31/11	Mon 10/31/11							
	·····	final removal	Mon 10/21/11	Eri 11/11/11							
	<b>==</b>	final removal	Mon 10/31/11	Fri 11/11/11	SOC			N			
372	<b>=</b>	start power supplies	Mon 11/7/11	Tue 11/8/11	SOC			N			
372 373	<b>III</b>	start power supplies cleanup	Mon 11/7/11 Mon 10/31/11	Tue 11/8/11 Fri 11/11/11	SOC SOC			N N			
372 373 374		start power supplies	Mon 11/7/11	Tue 11/8/11 Fri 11/11/11 Thu 11/10/11	SOC			N			
373	<b>Ⅲ</b> †	start power supplies cleanup hot check out checklist	Mon 11/7/11 Mon 10/31/11 Thu 11/10/11	Tue 11/8/11 Fri 11/11/11	SOC SOC			N N			
373 374	<b>III</b>	start power supplies cleanup hot check out checklist hot checkout	Mon 11/7/11 Mon 10/31/11 Thu 11/10/11 Thu 11/10/11	Tue 11/8/11 Fri 11/11/11 Thu 11/10/11 Thu 11/10/11	SOC SOC SOC			N N N			
373 374 375		start power supplies cleanup hot check out checklist hot checkout restore beam	Mon 11/7/11 Mon 10/31/11 Thu 11/10/11 Thu 11/10/11 Tue 11/15/11	Tue 11/8/11 Fri 11/11/11 Thu 11/10/11 Thu 11/10/11 Tue 11/15/11	SOC SOC SOC			N N N			
373 374 375 376		start power supplies cleanup hot check out checklist hot checkout restore beam final checklist	Mon 11/7/11 Mon 10/31/11 Thu 11/10/11 Thu 11/10/11 Tue 11/15/11 Thu 11/17/11	Tue 11/8/11 Fri 11/11/11 Thu 11/10/11 Thu 11/10/11 Tue 11/15/11 Thu 11/17/11	SOC SOC SOC SOC			N N N			
373 374 375 376 377		start power supplies cleanup hot check out checklist hot checkout restore beam final checklist begin commisioning	Mon 11/7/11  Mon 10/31/11  Thu 11/10/11  Thu 11/15/11  Tue 11/15/11  Thu 11/17/11  Fri 11/18/11	Tue 11/8/11 Fri 11/11/11 Thu 11/10/11 Thu 11/10/11 Tue 11/15/11 Thu 11/17/11 Fri 11/18/11	SOC SOC SOC SOC			N N N			
373 374 375 376 377 378 379 380		start power supplies cleanup hot check out checklist hot checkout restore beam final checklist begin commisioning commisioning	Mon 11/7/11  Mon 10/31/11  Thu 11/10/11  Thu 11/15/11  Tue 11/17/11  Fri 11/18/11  Fri 11/18/11	Tue 11/8/11 Fri 11/11/11 Thu 11/10/11 Thu 11/10/11 Tue 11/15/11 Thu 11/17/11 Fri 11/18/11 Thu 12/8/11	SOC SOC SOC SOC			N N N			
373 374 375 376 377 378 379 380 381		start power supplies cleanup hot check out checklist hot checkout restore beam final checklist begin commisioning commisioning experiment start	Mon 11/7/11  Mon 10/31/11  Thu 11/10/11  Thu 11/10/11  Tue 11/15/11  Thu 11/17/11  Fri 11/18/11  Fri 11/18/11  Fri 12/9/11	Tue 11/8/11 Fri 11/11/11 Thu 11/10/11 Thu 11/10/11 Tue 11/15/11 Thu 11/17/11 Fri 11/18/11 Thu 12/8/11 Fri 12/9/11	SOC SOC SOC SOC OPS			N N N			
373 374 375 376 377 378 379 380 381 382		start power supplies  cleanup  hot check out checklist  hot checkout  restore beam  final checklist  begin commisioning  commisioning  experiment start  stuff to do	Mon 11/7/11  Mon 10/31/11  Thu 11/10/11  Thu 11/10/11  Tue 11/15/11  Thu 11/17/11  Fri 11/18/11  Fri 11/18/11  Fri 12/9/11  Mon 5/16/11	Tue 11/8/11 Fri 11/11/11 Thu 11/10/11 Thu 11/15/11 Tue 11/15/11 Thu 11/17/11 Fri 11/18/11 Thu 12/8/11 Fri 12/9/11 Wed 6/29/11	SOC SOC SOC SOC OPS			N N N N			
373 374 375 376 377 378 379 380 381 382 383		start power supplies cleanup hot check out checklist hot checkout restore beam final checklist begin commisioning commisioning experiment start  stuff to do grease bogies	Mon 11/7/11  Mon 10/31/11  Thu 11/10/11  Thu 11/10/11  Tue 11/15/11  Thu 11/17/11  Fri 11/18/11  Fri 12/9/11  Mon 5/16/11  Mon 6/27/11	Tue 11/8/11 Fri 11/11/11 Thu 11/10/11 Thu 11/15/11 Tue 11/15/11 Thu 11/17/11 Fri 11/18/11 Thu 12/8/11 Fri 12/9/11 Wed 6/29/11 Tue 6/28/11	SOC SOC SOC SOC OPS			N N N N N			
373 374 375 376 377 378 379 380 381 382 383 384		start power supplies cleanup hot check out checklist hot checkout restore beam final checklist begin commisioning commisioning experiment start  stuff to do grease bogies grease central bearing	Mon 11/7/11  Mon 10/31/11  Thu 11/10/11  Thu 11/10/11  Tue 11/15/11  Thu 11/17/11  Fri 11/18/11  Fri 11/18/11  Fri 12/9/11  Mon 5/16/11  Mon 6/27/11  Wed 6/29/11	Tue 11/8/11 Fri 11/11/11 Thu 11/10/11 Thu 11/15/11 Thu 11/17/11 Fri 11/18/11 Thu 12/8/11 Fri 12/9/11  Wed 6/29/11 Tue 6/28/11 Wed 6/29/11	SOC SOC SOC SOC OPS			N N N N N			
373 374 375 376 377 378 379 380 381 382 383 384 385		start power supplies cleanup hot check out checklist hot checkout restore beam final checklist begin commisioning commisioning experiment start  stuff to do grease bogies grease central bearing install water manifold on upper LCW	Mon 11/7/11  Mon 10/31/11  Thu 11/10/11  Thu 11/10/11  Tue 11/15/11  Thu 11/17/11  Fri 11/18/11  Fri 11/18/11  Fri 12/9/11  Mon 5/16/11  Wed 6/29/11  Mon 5/16/11	Tue 11/8/11 Fri 11/11/11 Thu 11/10/11 Thu 11/15/11 Thu 11/17/11 Fri 11/18/11 Thu 12/8/11 Fri 12/9/11  Wed 6/29/11 Tue 6/28/11 Wed 6/29/11 Mon 5/16/11	SOC SOC SOC SOC OPS			N N N N N			
373 374 375 376 377 378 379 380 381 382 383 384		start power supplies cleanup hot check out checklist hot checkout restore beam final checklist begin commisioning commisioning experiment start  stuff to do grease bogies grease central bearing	Mon 11/7/11  Mon 10/31/11  Thu 11/10/11  Thu 11/10/11  Tue 11/15/11  Thu 11/17/11  Fri 11/18/11  Fri 11/18/11  Fri 12/9/11  Mon 5/16/11  Mon 6/27/11  Wed 6/29/11	Tue 11/8/11 Fri 11/11/11 Thu 11/10/11 Thu 11/15/11 Thu 11/17/11 Fri 11/18/11 Thu 12/8/11 Fri 12/9/11  Wed 6/29/11 Tue 6/28/11 Wed 6/29/11	SOC SOC SOC SOC OPS			N N N N N			

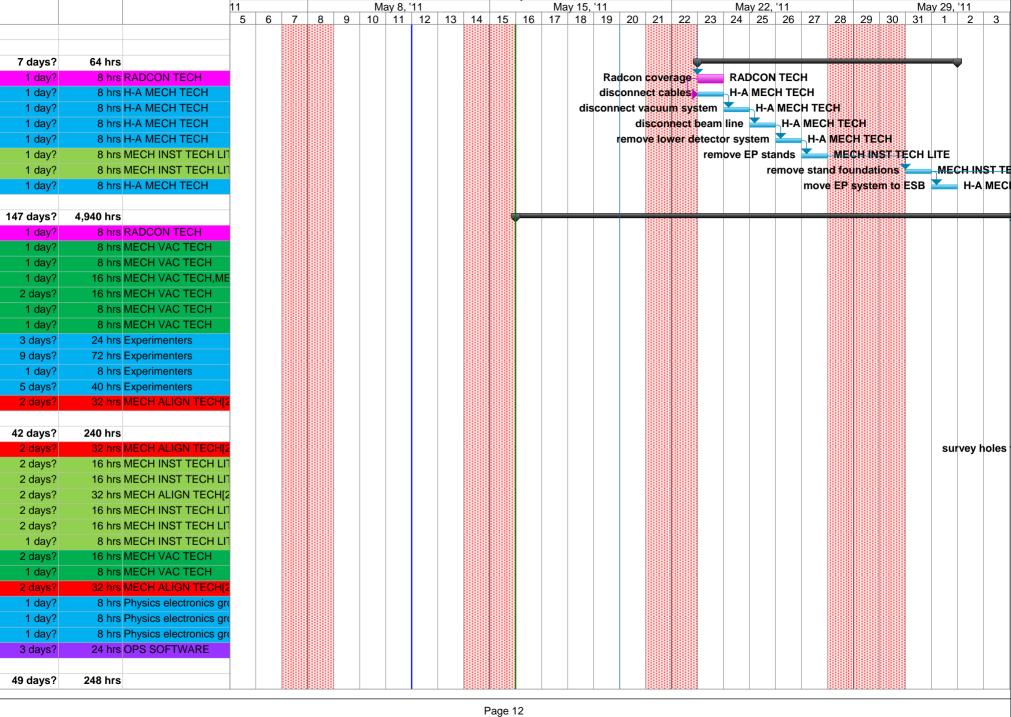
ID		Task Name	Start	Finish	Risk code pre THA	Task Hazard	Risk code	Atlis	HA list	Hot Work	, ,
	_				pie i nA	Analysis	post				plan
000	0	and the DD deliberates from	NA 5/40/44	NA 5/40/44			THA				
388		complete BB rigid water lines	Mon 5/16/11	Mon 5/16/11				N			
389		calibrate LL meters	Mon 5/16/11	Mon 5/16/11				N			
390		warm up Q-1 magnets	Mon 5/16/11	Mon 5/16/11				N			
391		de-sting Q-1 magnets	Mon 5/16/11	Mon 5/16/11				N			
392		rework leads on left Q1	Mon 5/16/11	Mon 5/16/11				N			
393		clean out cable trays	Mon 5/16/11	Mon 5/16/11				N			
394		install manual flow meters on Q2/Q3	Mon 5/16/11	Mon 5/16/11				N			
395		grease shield house doors	Mon 5/16/11	Mon 5/16/11				N			
396		re-insulate warm return lines	Mon 5/16/11	Mon 5/16/11				N			
397		repair leaks in exit beam pipe	Mon 5/16/11	Mon 5/16/11				N			
398		install DP gauges on LCW system	Mon 5/16/11	Mon 5/16/11				N			
399		install DP gauge on BB water system	Mon 5/16/11	Mon 5/16/11				N			
400		new lead guards on Q2/Q3	Mon 5/16/11	Mon 5/16/11				N			
401		new lead guards on Dipoles	Mon 5/16/11	Mon 5/16/11				N			
402		new lead guards on Q1s	Mon 5/16/11	Mon 5/16/11	SOC			N			
403		Lt Q1 power supply maintenance	Mon 5/16/11	Mon 5/16/11				N			
404		Lt Q2 power supply maintenance	Mon 5/16/11	Mon 5/16/11				N			
405		Lt Dipole power supply maintenance	Mon 5/16/11	Mon 5/16/11				N			
406		Rt Q1 power supply maintenance	Mon 5/16/11	Mon 5/16/11				N			
407		Rt Q2 power supply maintenance	Mon 5/16/11	Mon 5/16/11				N			
408		Rt Dipole power supply maintenance	Mon 5/16/11	Mon 5/16/11				N			
409		Rt Q3 power supply maintenance	Mon 5/16/11	Mon 5/16/11				N			
410		repair right transfer line	Mon 5/16/11	Mon 5/16/11				N			
411		replace left Q2 016 weka valve	Mon 5/16/11	Mon 5/16/11				N			
412		remove maintenance jacks from both spectrometers	Mon 5/16/11	Mon 5/16/11				N			
413		finish vacuum line extension on Rt Q3	Mon 5/16/11	Mon 5/16/11				N			
414		visual inspection of exit BP diffuser	Mon 5/16/11	Mon 5/16/11				N			
415		Upgrade/ reinforce BB support arm and extensions	Mon 5/16/11	Mon 5/16/11				N			
416		Rework PHPK cryo cans for pivot distribution	Mon 5/16/11	Mon 5/16/11				N			
417		modify and install stairs	Mon 5/16/11	Mon 5/16/11				N			
418		install local valve controler to exit beam pipe valve	Mon 5/16/11	Mon 5/16/11							
	1										



May 2011

Duration

Work



May 2011

Work

Resource Names

Duration

Duration	Work	Resource Names											B /	lov 20	111																	
			11					Ma	ay 8, '	11			IV	lay 20	Ma Ma	av 15	5, '11					М	ay 22	. '11			$\top$		M	ay 29,	'11	
			5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		2	3
2 days?		MECH ALIGN TECH[2																												su	rvey h	oles
2 days?		MECH INST TECH LIT																														
2 days?	16 hrs	MECH INST TECH LIT																														
2 days?	32 hrs	MECH ALIGN TECH[2																														
2 days?	16 hrs	MECH INST TECH LIT																														
2 days?	16 hrs	MECH INST TECH LIT																														
1 day?	8 hrs	MECH INST TECH LIT																														
1 day?	8 hrs	MECH VAC TECH																														
1 day?	8 hrs	MECH VAC TECH																														
1 day?	8 hrs	MECH VAC TECH																														
1 day?	8 hrs	MECH INST TECH LIT																														
1 day?	16 hrs	MECH ALIGN TECH[2																														
2 days?	16 hrs	ICD ELEC TECH																														
1 day?	8 hrs	ICD ELEC TECH																														
5 days?	40 hrs	OPS SOFTWARE																														
25 days?	216 hrs																															
1 day?	0 hrs																															
1 day?	8 hrs	MECH INST TECH LIT																														
1 day?	8 hrs	MECH VAC TECH																														
2 days?	16 hrs	MECH VAC TECH																														
1 day?	8 hrs	MECH INST TECH LIT																														
1 day?	8 hrs	MECH INST TECH LIT																														
1 day?	8 hrs	MECH VAC TECH																														
1 day?	8 hrs	MECH INST TECH LIT																														
4 days?	32 hrs	ICD ELEC TECH																														
1 day?	8 hrs	ICD ELEC TECH																														
2 days?	16 hrs	ICD ELEC TECH																														
1 day?		MECH VAC TECH																														
3 days?	24 hrs	MECH VAC TECH																														
2 days	16 hrs	MECH VAC TECH																														
1 day?	16 hrs	MECH ALIGN TECH[2																														
1 day?	8 hrs	MECH INST TECH LIT																														
1.5 days?	24 hrs	MECH VAC TECH,ICI																														
8 days?	112 hrs																													$\pm$		ļ
1 day?		RADCON TECH																	n sup			RA	DCO	N TEC	H							
5 days?		MECH INST TECH LIT															emove									ME	CHI	NST T	ECH	LITE		
1 day?		ICD ELEC TECH												disc			eam li						ELE	C TE								
2 days?		MECH VAC TECH													C	lisco	onnect				•				сн и		ECH					
2 days?		MECH INST TECH LIT															r	emov	e wat	er ar	d co	ntrol	lines		1			NST T	***			
1 day?		MECH INST TECH LIT																										girder		111	CH IN	
1 day?	8 hrs	MECH INST TECH LIT																							r	emo	∕e gir	der st	ands		MEC	H IN
												F	Page	13																		

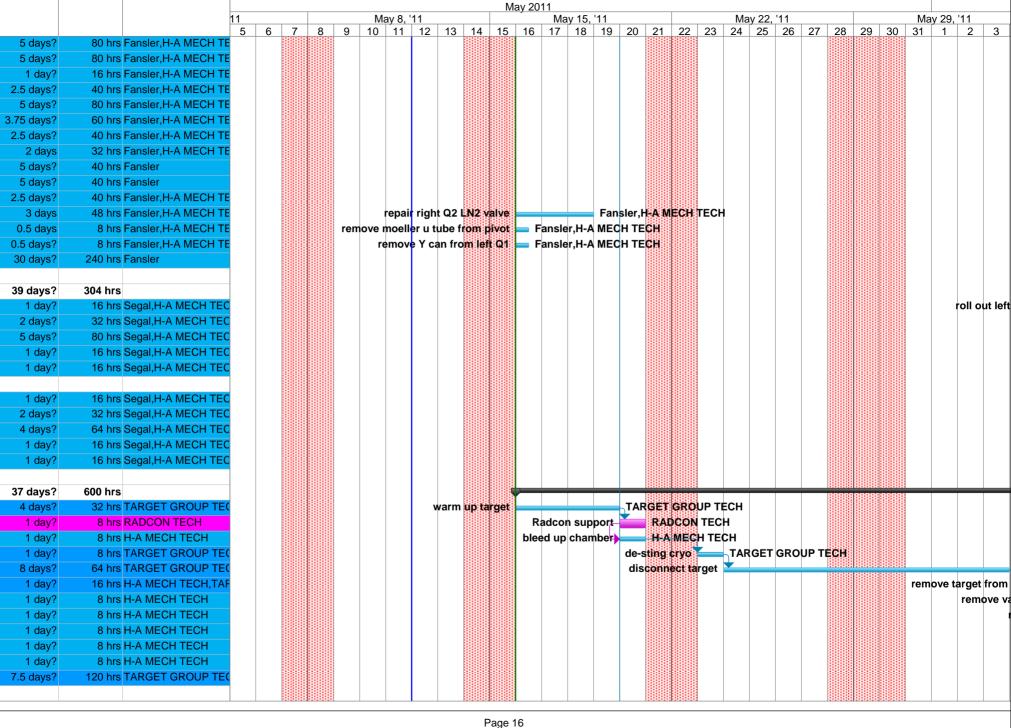
Work

Duration	Work	Resource Names											N 4	ay 20	11															1		
			11					Ма	y 8, '	11_				-	Ma	y 15, '1						Ма	y 22,	'11					M	⊥ ay 29,	'11	
			5	6	7	8	9	10	11	12	13	14	15	16	17	18 ′	9 2	20 2	21	22	23	24	25	26	27	28	29	30	31	1	2	3
1 day?	8 hrs	MECH INST TECH LIT																									rem	ove s	tand (	grout		ME
422 days 2	704 hrs																															
122 days?		MECH ALIGN TECH[2																												CUE	ov b	oles f
2 days?		MECH INST TECH LIT																												Surv	ey II	Jies i
2 days?		MECH INST TECH LIT																														
2 days?		MECH ALIGN TECH[2																														
2 days?		MECH INST TECH LIT																														
2 days?	16 hrs	MECH INST TECH LIT																														
3 days?		H-A MECH TECH																														
2 days?		H-A MECH TECH																														
2 days?		ICD ELEC TECH																														
2 days?	16 hrs	ELECTRICIAN (TECH																														
10 40,400	00 h	MECH INSTITECTURE																														
10 days?		MECH INST TECH LIT MECH ALIGN TECH[2																														
4 days?		ICD ELEC TECH																														
5 days?		ICD ELEC TECH																														
3 days?		MECH INST TECH LIT																														
5 days?		MECH VAC TECH																														
5 days?	40 hrs	MECH VAC TECH																														
1 day?	8 hrs	MECH VAC TECH																														
4 days?		ICD ELEC TECH																														
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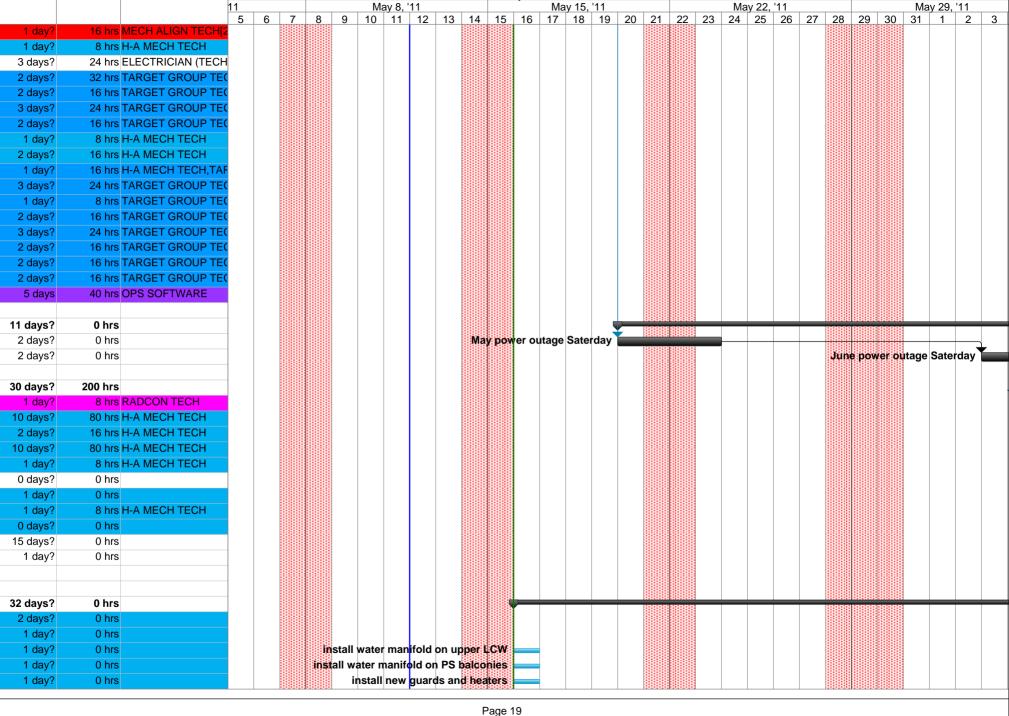
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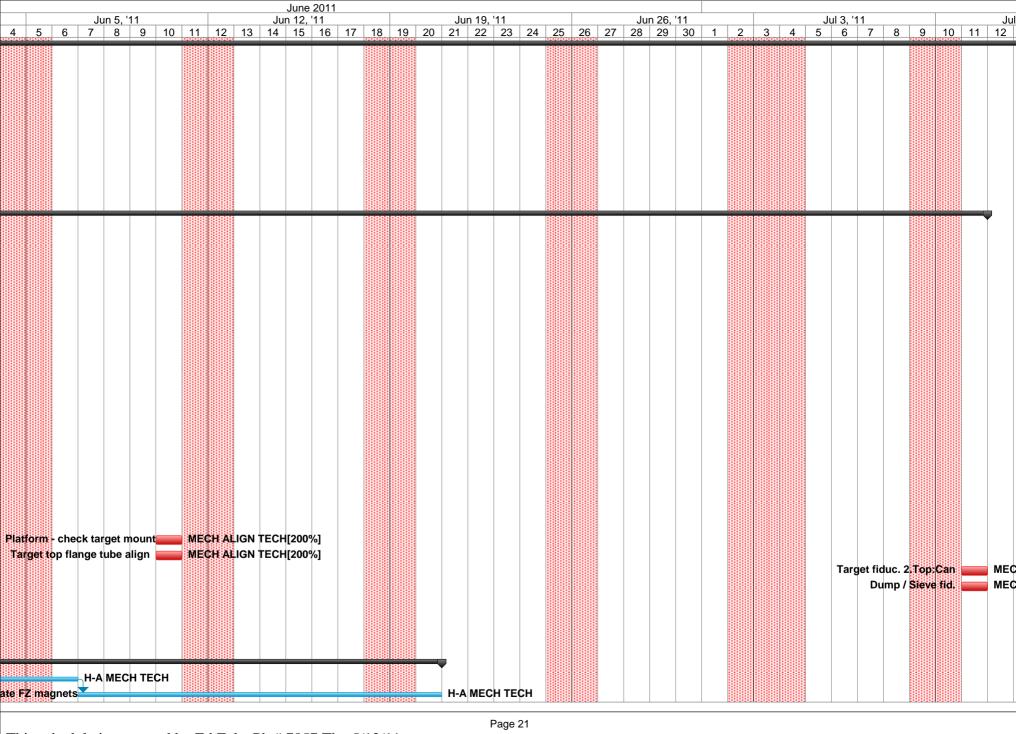


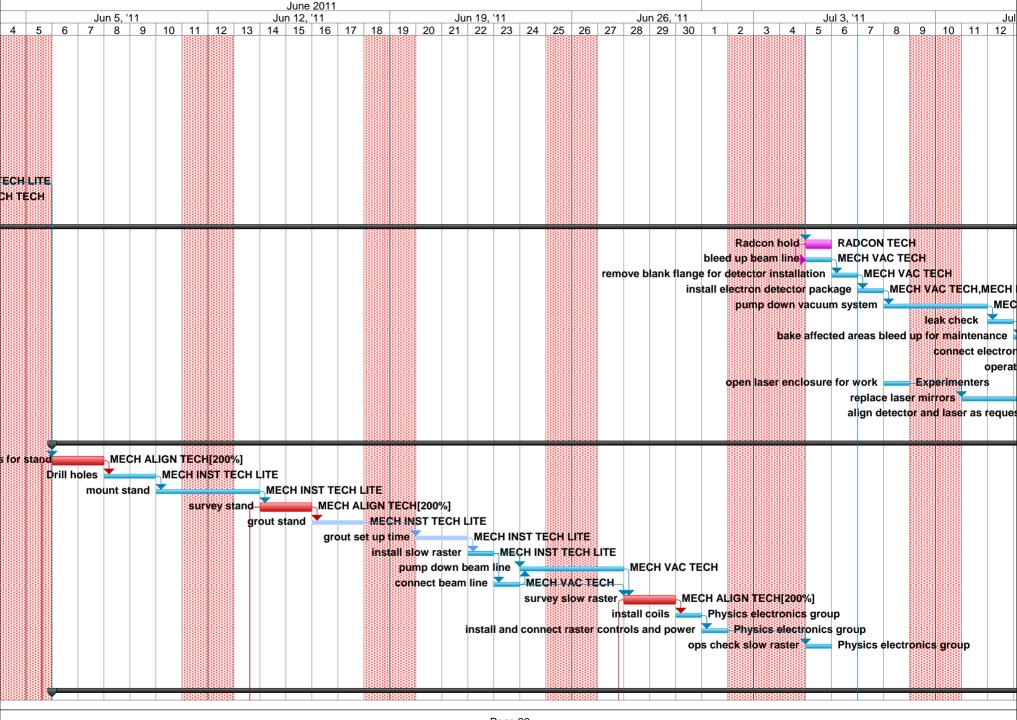
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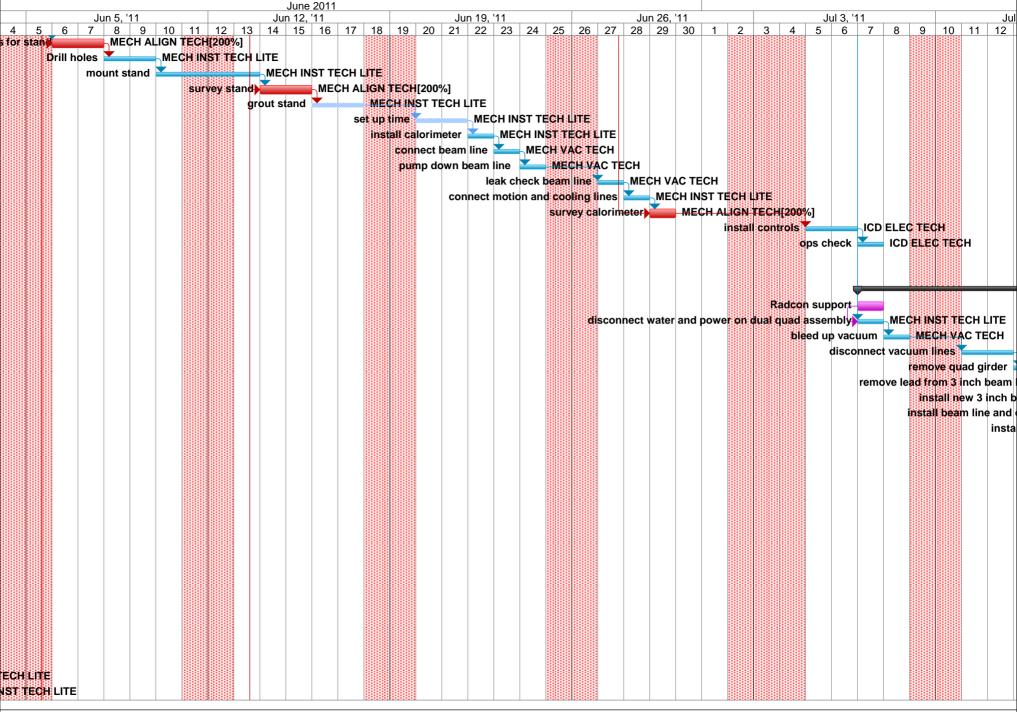
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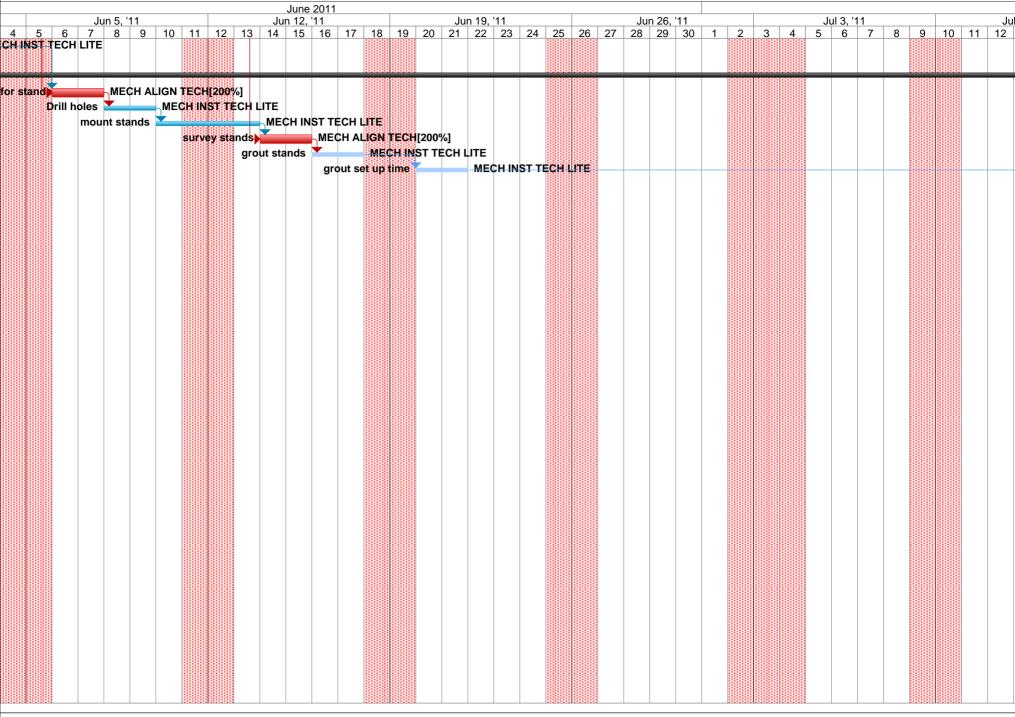
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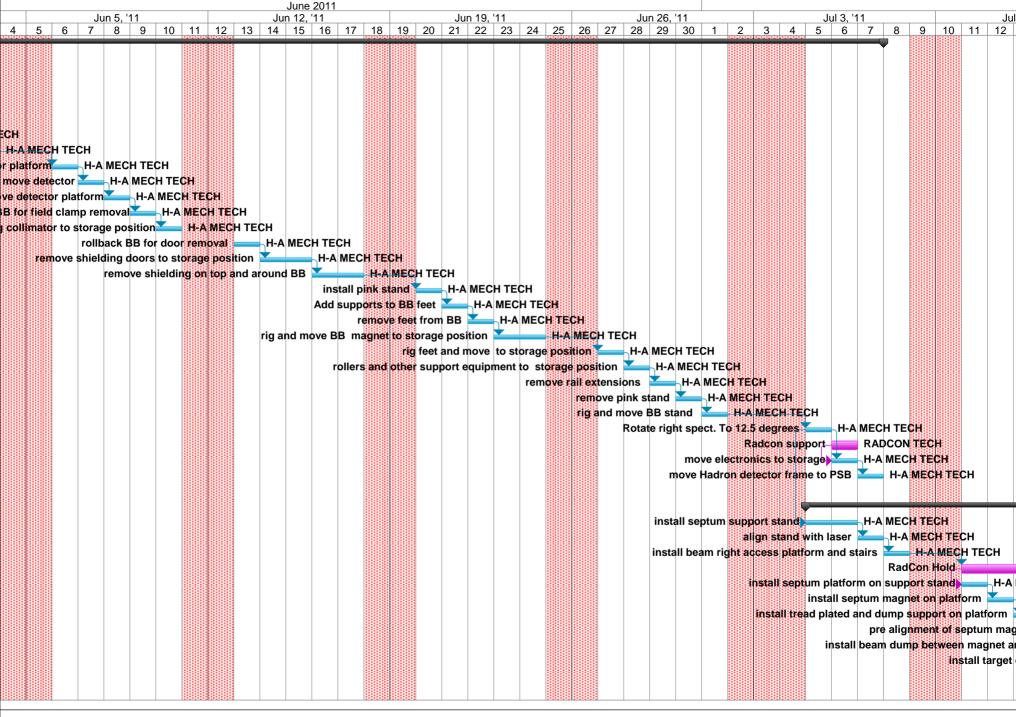




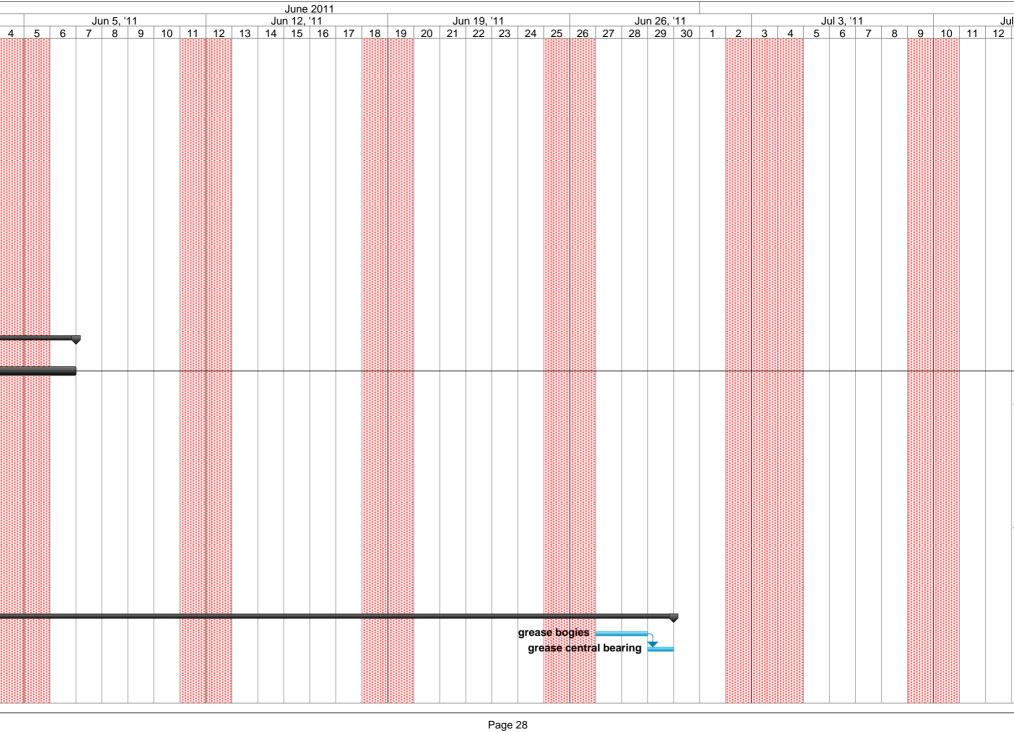




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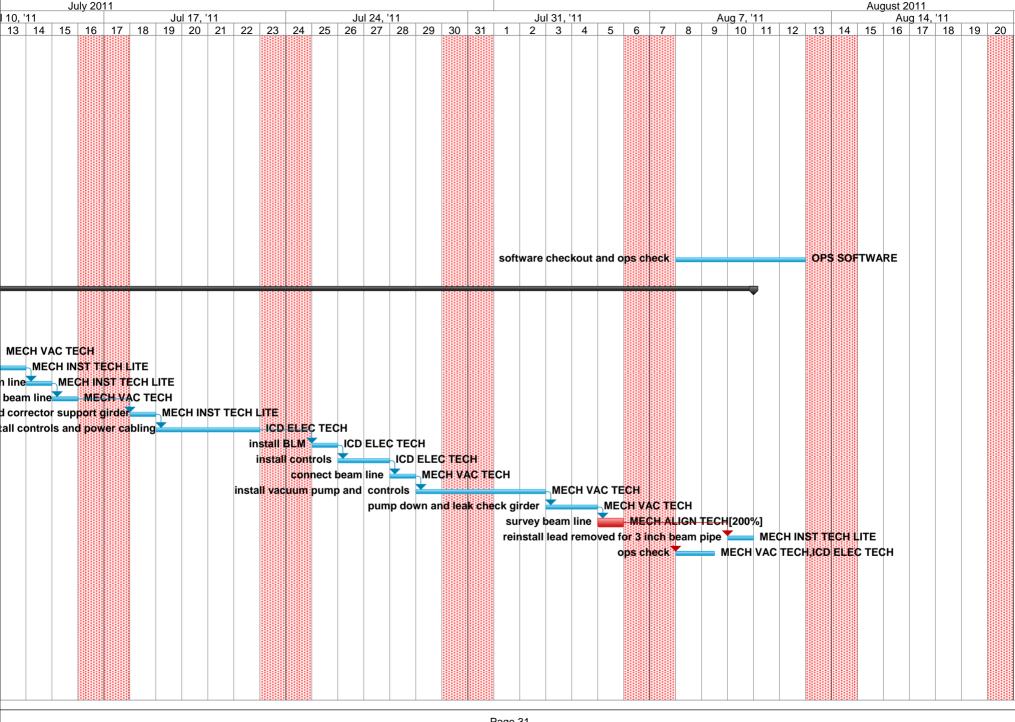


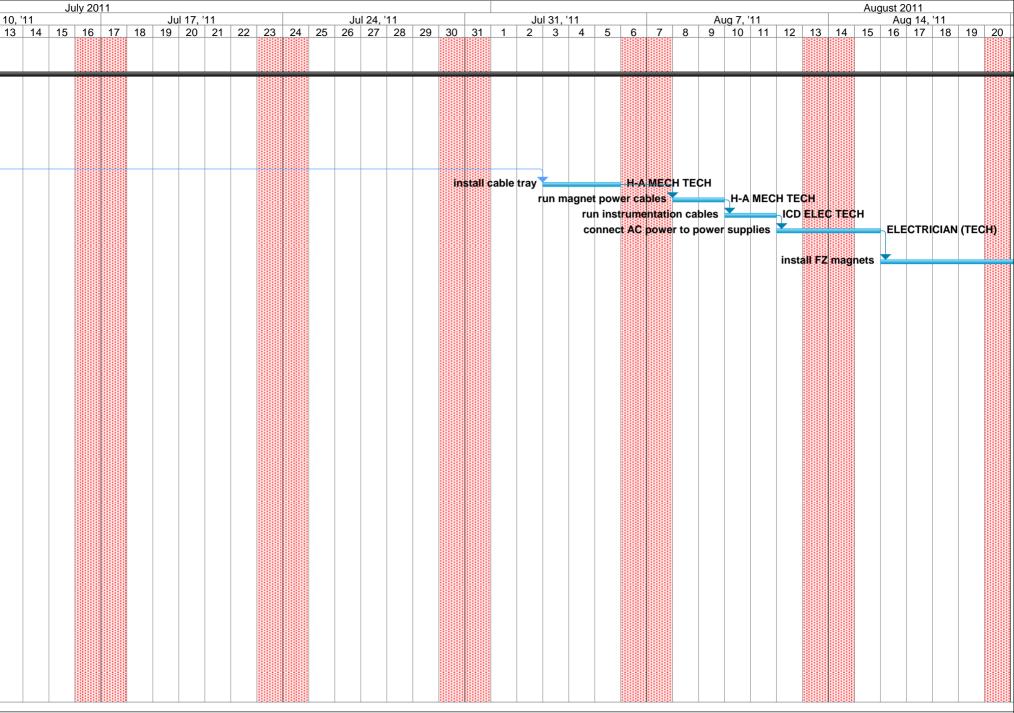
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	by Ed Folts Ph # 7857 Thu 5/12	Page	30		





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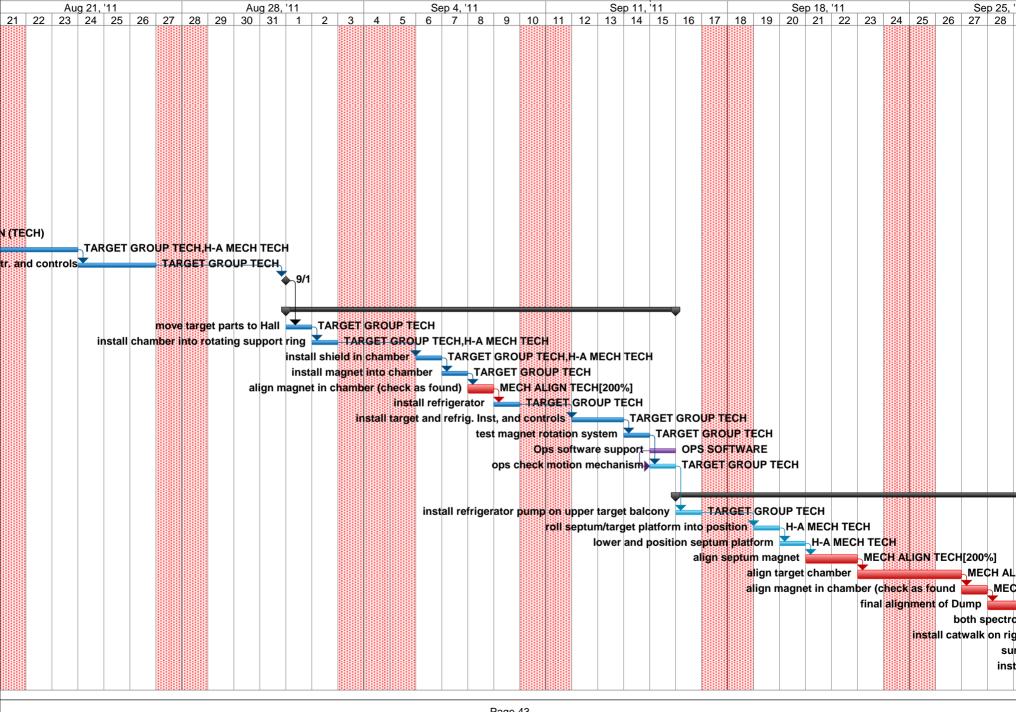
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September 2011

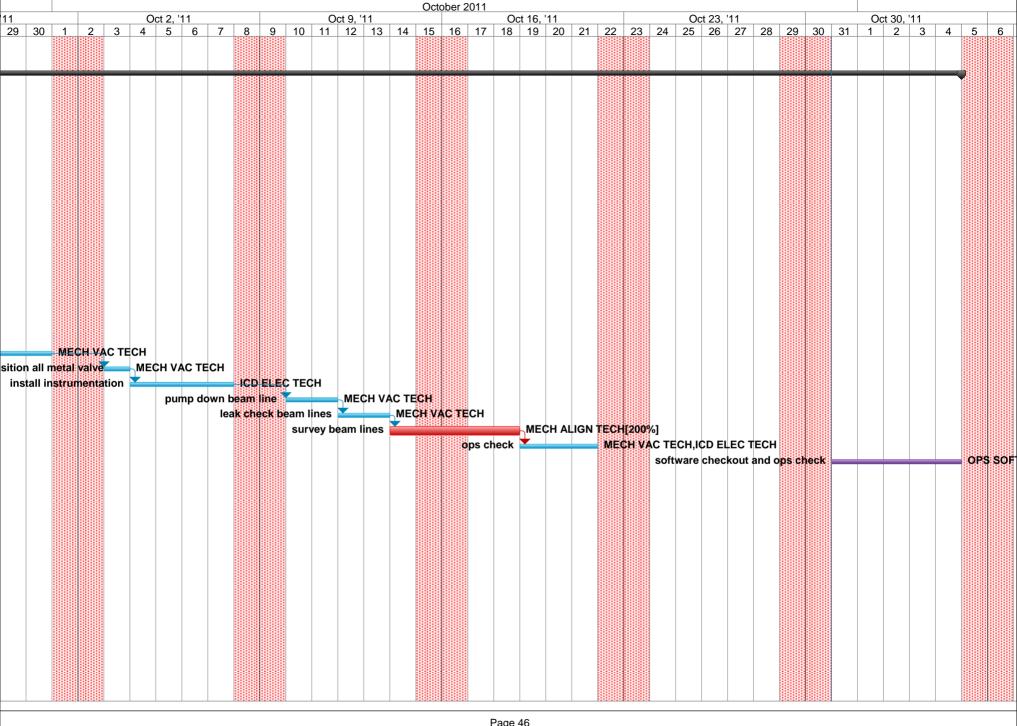
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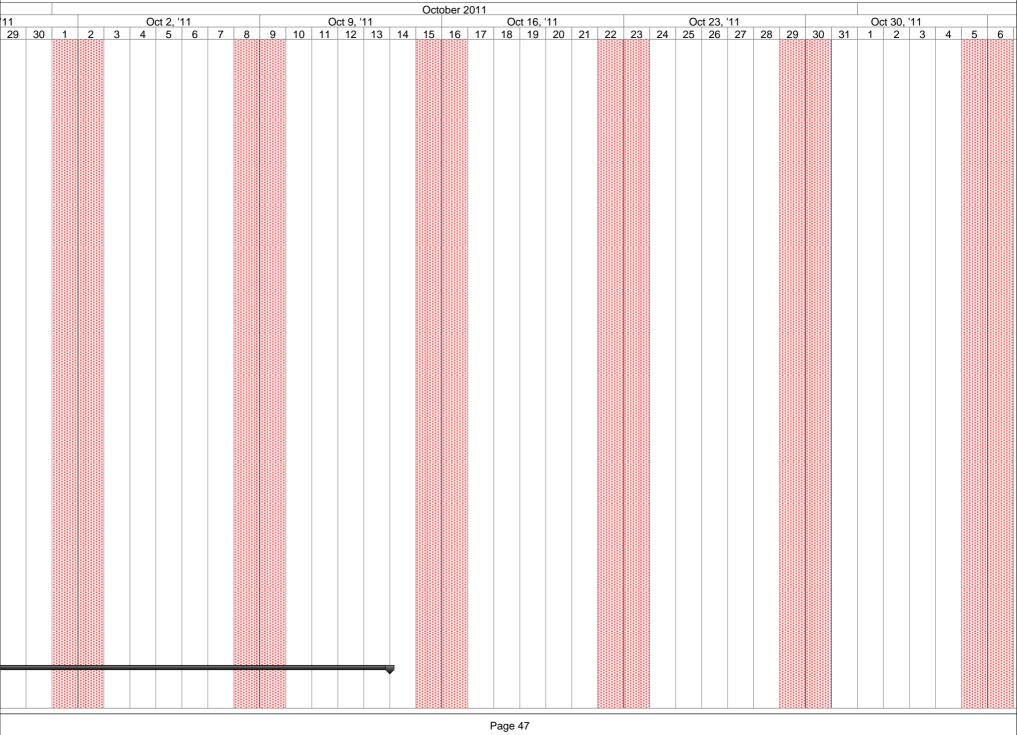
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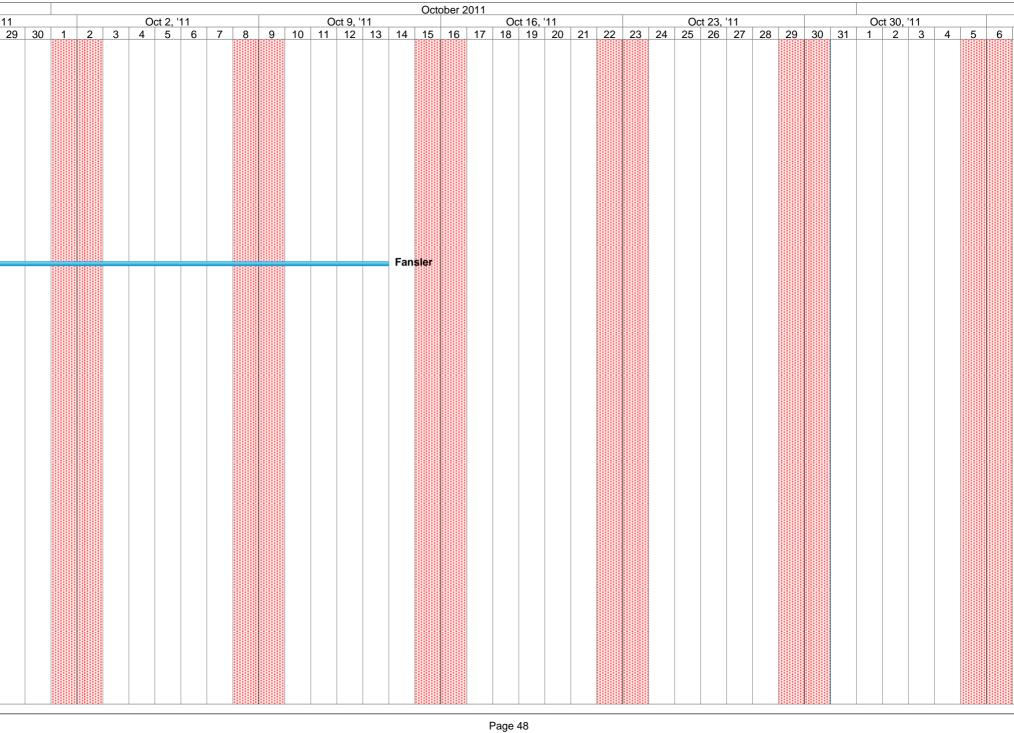
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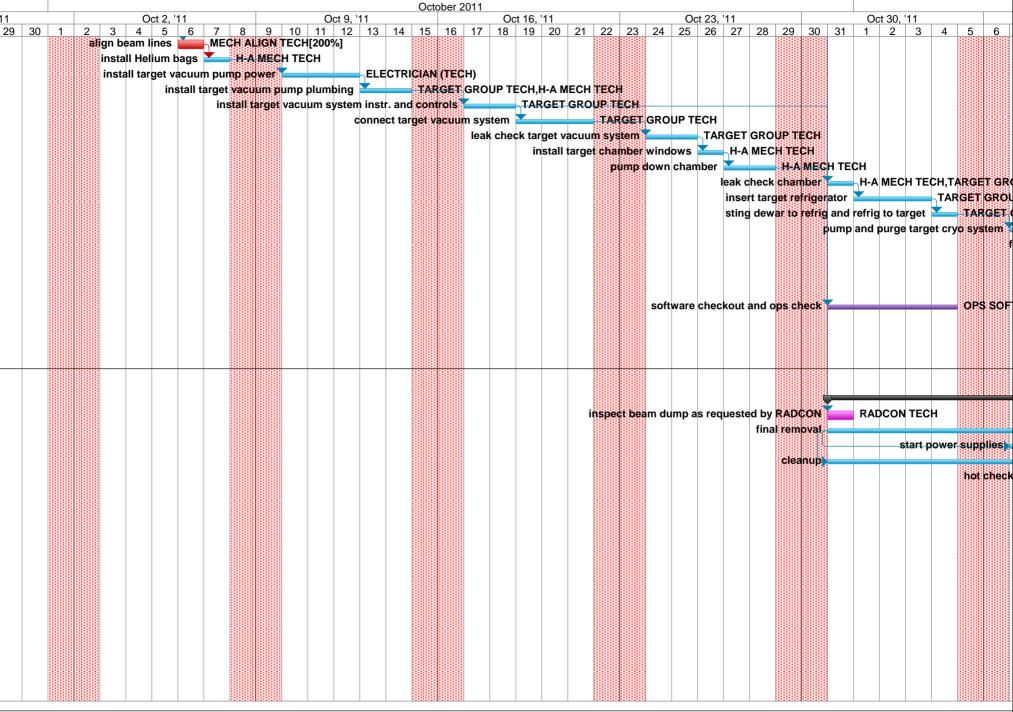






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