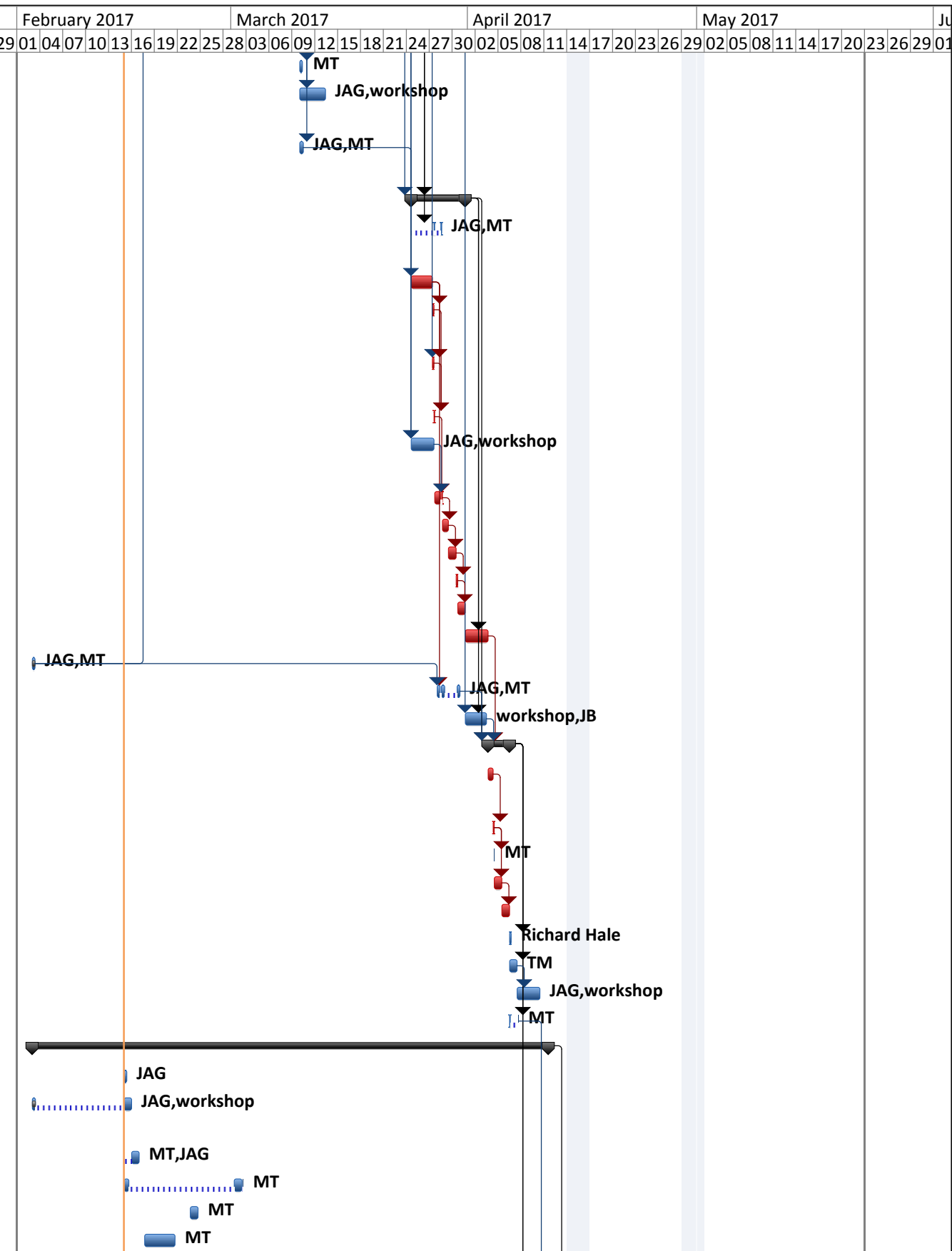


ID	Task Name	Duration	Start	Finish	Predecessors	Resource	% Complete	February 2017							March 2017							April 2017							May 2017							June 2017					
								29	01	04	07	10	13	16	19	22	25	28	03	06	09	12	15	18	21	24	27	30	02	05	08	11	14	17	20		23	26	29	02	05
1	Retest with Helium	8 days	Tue 14/02/17	Thu 23/02/17		JB	0%								JB																										
2	Initial preparations	22.4 days?	Wed 01/02/17	Fri 03/03/17			64%	—————▶							—————▶																										
3	Purchase cylinder(s) of nitrogen gas	0.1 days	Fri 03/03/17	Fri 03/03/17		MT	0%															MT																			
4	Purchase cylinder(s) of argon gas	0.1 days	Fri 03/03/17	Fri 03/03/17		MT	0%															MT																			
5	Purchase Neon	0.1 days	Wed 01/02/17	Wed 15/02/17		MT	50%							MT																										
6	Check availability of 1" VCR gaskets	0.25 days	Thu 02/03/17	Fri 03/03/17		MT	100%															MT																			
7	Check availability of vacuum gaskets	0.5 days	Wed 01/03/17	Thu 02/03/17		MT	100%															MT																			
8	Valve on Hydrogen regulator panel to connect Neon cylinder	1 day	Fri 03/02/17	Fri 03/02/17			100%	■																																	
9	Check whereabouts of safety windows	1 day	Thu 02/02/17	Fri 03/02/17		JAG,MT	100%	■							JAG,MT																										
10	Find indium	0.2 days	Wed 01/02/17	Wed 01/02/17		MT	100%	■							MT																										
11	Order capillary	0.2 days	Fri 03/02/17	Wed 15/02/17		VB	50%							VB																										
12	Source pipework for Nitrogen venting gas to transfer line	0.5 days	Thu 02/03/17	Thu 02/03/17		MT	0%															MT																			
13	New pipework for Helium supply to systems other than the Hydrogen system	1 day?	Wed 01/02/17	Wed 01/02/17		JG	100%	■							JG																										
14	Find DN125 vacuum pipe to turbo and connectors	0.5 days	Wed 15/02/17	Wed 15/02/17		MT	0%								MT																										
15	Get adaptor for connector on turret to PG05 made	1 day	Wed 15/02/17	Wed 15/02/17		MT	0%								MT																										
16	AFC mods in R9	28.7 days	Tue 14/02/17	Fri 24/03/17	1		14%	—————▶							—————▶																										
17	Remove end caps from AFC onto blue frames	1 day	Tue 14/02/17	Fri 17/02/17		JAG,A.N	100%	■							JAG,A.N.Other																										
18	Remove hydrogen insert from turret	0.75 days	Fri 17/02/17	Thu 23/02/17	17,55	JAG,MT	100%	■							JAG,MT																										
19	Stycast temperature sensors to the absorber inlet and outlet pipes	1 day	Fri 24/02/17	Fri 24/02/17	17	VB,KG	0%								VB,KG																										
20	Clean all indium joint surfaces	0.5 days	Fri 24/02/17	Fri 24/02/17	17	KG	0%								KG																										
21	Heat sink the rad shield to the pipework bringing warm gas into the turret	23 days	Tue 14/02/17	Thu 16/03/17			2%	—————▶							—————▶																										
22	Clamp and thermal strap made	1 day	Fri 24/02/17	Fri 24/02/17		worksho	0%								■																										
23	Strip MLI off turret	0.4 days	Tue 14/02/17	Fri 24/02/17		A.N.Other	20%							A.N.Other																										
24	Install thermal strap	0.1 days	Mon 27/02/17	Mon 27/02/17	22	worksho	0%								■																										
25	Re-do MLI on turret	2 days	Mon 27/02/17	Thu 16/03/17	24	MT	0%																																	
26	Fit capillary	2 days	Fri 17/03/17	Mon 20/03/17	11FS+10 days,21	worksho	0%								■																										
27	Make G10 stand off for top-hat	1 day	Fri 24/02/17	Fri 24/02/17		JB	0%								JB																										
28	Dry run fitting top hat on the FC	1 day	Fri 24/02/17	Fri 24/02/17	17	JG,MT	0%								JG,MT																										
29	Prepare system to be moved to MICE hall	2 days	Tue 21/03/17	Fri 24/03/17	19,21,26	MT,JAG	0%								■																										
30	Install the hydrogen insert and absorber in beamline	47.65 days	Thu 02/02/17	Tue 11/04/17			1%	—————▶							—————▶																										
31	Remove AFC from beamline	5.2 days	Mon 06/03/17	Mon 13/03/17			0%								—————▶																										
32	Dismantle central PRY	2 days	Mon 06/03/17	Tue 07/03/17		JAG,woi	0%								■							JAG,workshop																			
33	Disconnect magnet power cables	0.5 days	Mon 06/03/17	Mon 06/03/17		Richard	0%								■							Richard Hale																			
34	Vent up the bore with inert gas (nitrogen)	0.5 days	Mon 06/03/17	Mon 06/03/17		MT	0%								■							MT																			
35	Remove bolts connecting the FC to SSU and SSD	1 day	Wed 08/03/17	Wed 08/03/17	32,33,34	JAG,A.N	0%								■							JAG,A.N.Other																			
36	Jack apart the SSU and SSD	0.5 days	Thu 09/03/17	Thu 09/03/17	35	JAG,woi	0%								■							JAG,workshop																			
37	Disconnect cables (thermometry, pressure gauges, etc)	0.1 days	Thu 09/03/17	Thu 09/03/17	36	MT	0%								■							MT																			
38	Withdraw FC from beam-line to off-line position	0.4 days	Thu 09/03/17	Thu 09/03/17	37	JAG,woi	0%								■							JAG,workshop																			

Project: 170201 MICE LH2 system Date: Wed 15/02/17	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
	Split		External Tasks		Inactive Summary		Manual Summary		Critical	
	Milestone		External Milestone		Manual Task		Start-only		Critical Split	
	Summary		Inactive Task		Duration-only		Finish-only		Progress	

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names	% Complete	February 2017							March 2017							April 2017							May 2017												
								29	01	04	07	10	13	16	19	22	25	28	03	06	09	12	15	18	21	24	27	30	02	05	08	11	14	17	20	23	26	29	02	05	08
39	Reconnect cables (thermometry, pressure etc)	0.1 days	Fri 10/03/17	Fri 10/03/17	38	MT	0%																																		
40	Remove LiH and place in storage bin with argon gas, and return to R9	1.2 days	Fri 10/03/17	Mon 13/03/17	38	JAG,workshop	0%																																		
41	Remove the spare H turret from FC in Hall and take to R9	0.5 days	Thu 09/03/17	Fri 10/03/17	38	JAG,MT	0%																																		
42	Fit the hydrogen turret and absorber	5.25 days	Fri 24/03/17	Fri 31/03/17	16,38		0%																																		
43	Transport modified turret and the absorber to MICE hall	0.5 days	Fri 24/03/17	Tue 28/03/17	16	JAG,MT	0%																																		
44	Fit turret and absorber	0.5 days	Fri 24/03/17	Mon 27/03/17	41	JAG,MT	0%																																		
45	Reconnect all gas lines and pumps to top-plate for leak checking offline	0.5 days	Mon 27/03/17	Mon 27/03/17	44	MT	0%																																		
46	Reconnect pipework between the turret and the absorber, including indium joints	0.5 days	Mon 27/03/17	Mon 27/03/17	44,10	VB,KG	0%																																		
47	Leak check (sniffing for helium)	0.25 days	Mon 27/03/17	Mon 27/03/17	46,45	VB,KG	0%																																		
48	Transport the end-caps and safety windows from R9 to Hall	1 day	Fri 24/03/17	Mon 27/03/17	9,17	JAG,workshop	0%																																		
49	Fit the end caps on AFC in hall	0.75 days	Mon 27/03/17	Tue 28/03/17	47,48	MT,JAG	0%																																		
50	Pump down the FC bore	0.5 days	Tue 28/03/17	Wed 29/03/17	49	MT	0%																																		
51	Leak-test turret and absorber	1 day	Wed 29/03/17	Thu 30/03/17	50	MT	0%																																		
52	Remove end-caps from FC in hall	0.5 days	Thu 30/03/17	Thu 30/03/17	51	JAG,A.N	0%																																		
53	Complete MLI on all pipework	1 day	Thu 30/03/17	Fri 31/03/17	52	VB,MT	0%																																		
54	Install the safety window	1 day	Fri 31/03/17	Mon 03/04/17	42	JAG,MT	0%																																		
55	Remove "vacuum tree" from turret in R9	0.1 days	Thu 02/02/17	Fri 03/02/17		JAG,MT	100%																																		
56	Install "vacuum tree" on turret in Hall	1 day	Tue 28/03/17	Thu 30/03/17	55,44	JAG,MT	0%																																		
57	Install G10 stand-off for top-hat	0.5 days	Fri 31/03/17	Mon 03/04/17	27,42	workshop	0%																																		
58	Return AFC into beamline	2.5 days	Mon 03/04/17	Thu 06/04/17	57,42,54,56		0%																																		
59	Disconnect cables (thermometry, pressure gauges, etc)	0.1 days	Mon 03/04/17	Tue 04/04/17		MT	0%																																		
60	Move FC back into beamline	0.4 days	Tue 04/04/17	Tue 04/04/17	59	JAG,MT	0%																																		
61	Reconnect cables (thermometry, pressure etc)	0.1 days	Tue 04/04/17	Tue 04/04/17	60	MT	0%																																		
62	Move SSU and SSD back to coupled positions	1 day	Tue 04/04/17	Wed 05/04/17	60	JAG,workshop	0%																																		
63	Insert bolts connecting the FC to SSU and SSD	1 day	Wed 05/04/17	Thu 06/04/17	62	JAG,A.N	0%																																		
64	Re-connect magnet power cables	0.5 days	Thu 06/04/17	Thu 06/04/17	58	Richard	0%																																		
65	Re-survey magnets	1 day	Thu 06/04/17	Fri 07/04/17	58	TM	0%																																		
66	Assemble central PRY	1 day	Fri 07/04/17	Mon 10/04/17	65	JAG,workshop	0%																																		
67	Pump out interface volumes equally	0.25 days	Thu 06/04/17	Fri 07/04/17	58	MT	0%																																		
68	Complete Hydrogen system pipework	47.65 days	Fri 03/02/17	Tue 11/04/17			3%																																		
69	Move Klaxon from above hydrogen system	0.1 days	Wed 15/02/17	Wed 15/02/17		JAG	0%																																		
70	Check cover panels on the valve panel are complete (fit and seal correctly)	1.2 days	Fri 03/02/17	Wed 15/02/17		JAG,workshop	17%																																		
71	Replace the reconditioned regulators	1 day	Tue 14/02/17	Thu 16/02/17		MT,JAG	0%																																		
72	Test the PRVs outside the hall	2 days	Wed 15/02/17	Thu 02/03/17		MT	0%																																		
73	Leak check the valve panel	1 day	Thu 23/02/17	Fri 24/02/17		MT	0%																																		
74	Leak-test pipework from bottle packs to cabinet	2 days	Fri 17/02/17	Tue 21/02/17		MT	0%																																		



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	Milestone		External Milestone		Manual Task		Start-only		Critical Split	
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