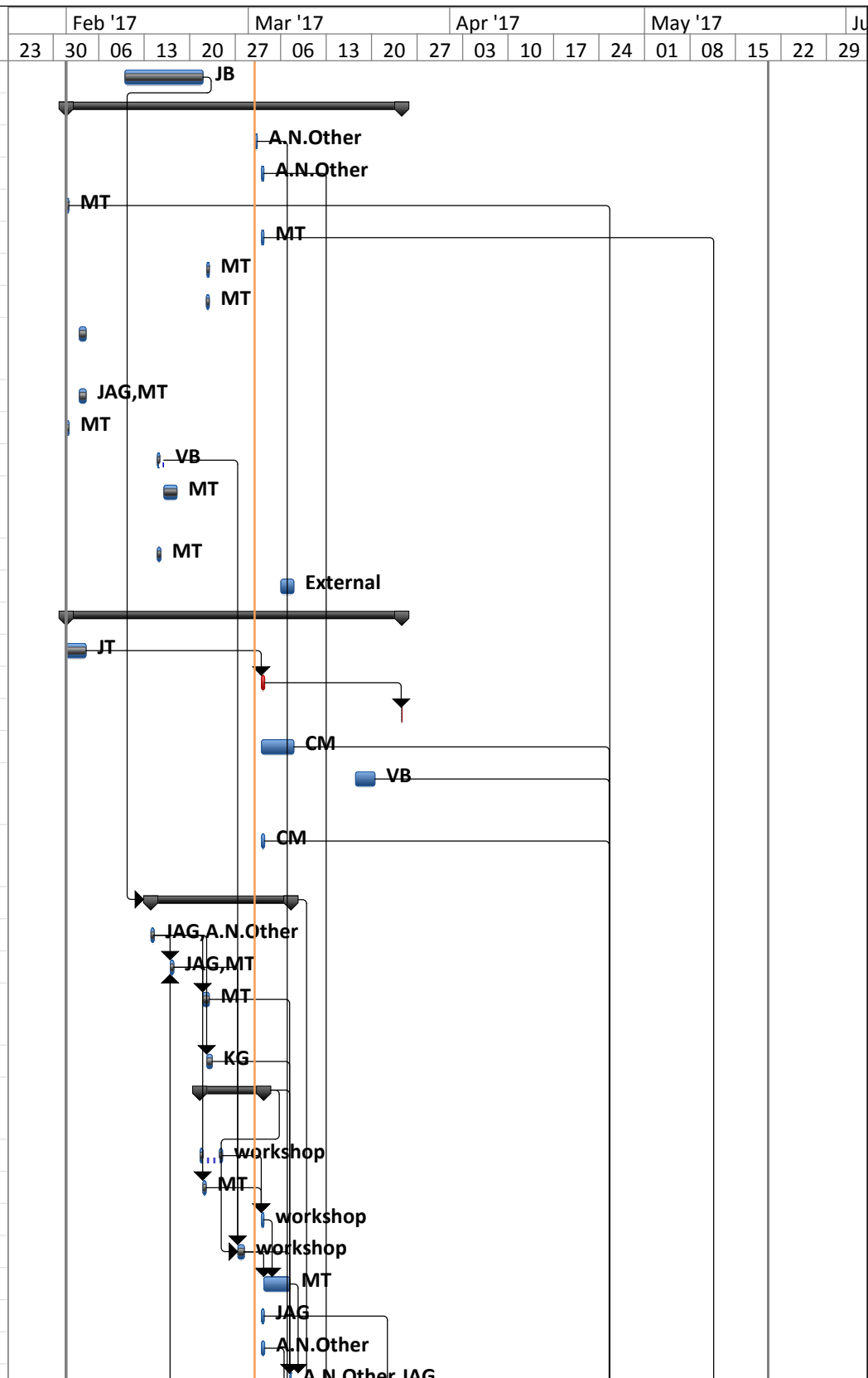
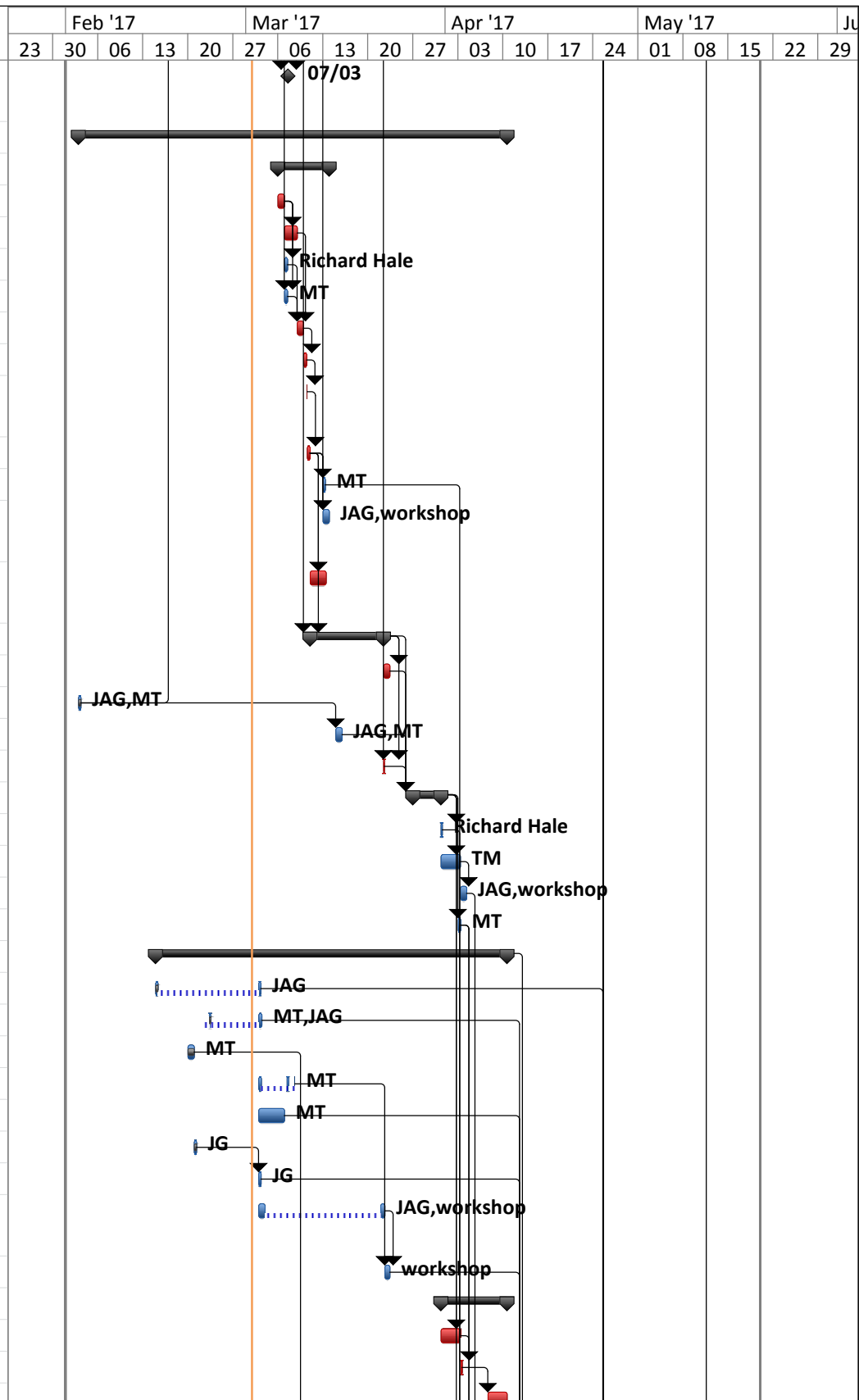


ID	Task Name	Duration	Start	Finish	Prede	Success	Resource	% Complete	Total Slack	Feb '17							Mar '17				Apr '17			May '17			Ju					
										23	30	06	13	20	27	06	13	20	27	03	10	17	24	01	08	15		22	29			
1	Retest with Helium	8 days	Fri 10/02/17	Tue 21/02/17	23	JB	100%	0 days																								
2	Initial preparations	37.75 days	Wed 01/02/17	Fri 24/03/17				53%	36.2 days																							
3	Purchase cylinder(s) of nitrogen gas	0.1 days	Thu 02/03/17	Thu 02/03/17	43	A.N.Oth	0%	6.12 days																								
4	Purchase cylinder(s) of argon gas	0.1 days	Fri 03/03/17	Fri 03/03/17	49	A.N.Oth	0%	51.85 days																								
5	Purchase Neon	0.1 days	Wed 01/02/17	Wed 01/02/17	138	FS+MT	100%	0 days																								
6	Purchase Hydrogen bottle pack	0.1 days	Fri 03/03/17	Fri 03/03/17	149	MT	0%	46.75 days																								
7	Check availability of 1" VCR gaskets	0.25 days	Wed 22/02/17	Wed 22/02/17		MT	100%	0 days																								
8	Check availability of vacuum gaskets	0.5 days	Wed 22/02/17	Wed 22/02/17		MT	100%	0 days																								
9	Valve on Hydrogen regulator panel to connect Neon cylinder	1 day	Fri 03/02/17	Fri 03/02/17			100%	0 days																								
10	Check whereabouts of safety windows	1 day	Thu 02/02/17	Fri 03/02/17	57	JAG,MT	100%	0 days																								
11	Find indium	0.2 days	Wed 01/02/17	Wed 01/02/17	55	MT	100%	0 days																								
12	Order capillary	0.1 days	Wed 15/02/17	Wed 15/02/17	32	FS+VB	100%	0 days																								
13	Source pipework for Nitrogen venting gas to transfer line	2 days	Thu 16/02/17	Fri 17/02/17		MT	100%	0 days																								
14	Find DN125 vacuum pipe to turbo and connectors	0.5 days	Wed 15/02/17	Wed 15/02/17		MT	100%	0 days																								
15	Get adaptor for connector on turret to PG05 made	2 days	Mon 06/03/17	Tue 07/03/17	55	External	0%	5.72 days																								
16	Spacer ring for top-hat	37.75 days	Wed 01/02/17	Fri 24/03/17				80%	0.35 days																							
17	Draw spacer ring for top-hat	3 days	Wed 01/02/17	Fri 03/02/17	18	JT	100%	0 days																								
18	Order spacer ring for top-hat	0.5 days	Fri 03/03/17	Fri 03/03/17	17	19FS+JAG	0%	0.35 days																								
19	Spacer ring delivered	0.25 days	Fri 24/03/17	Fri 24/03/17	18	FS+69	JAG	0%	0.35 days																							
20	Set up webcams for shifters to monitor system	3 days	Fri 03/03/17	Tue 07/03/17	146	CM	0%	33.85 days																								
21	Label all valves on hardware, including general labels for bottle supplies	1 day	Fri 17/03/17	Mon 20/03/17	146	VB	0%	25.4 days																								
22	Install anti-static wristband on hydrogen bottle cage (Action List 1)	0.5 days	Fri 03/03/17	Fri 03/03/17	146	CM	0%	36.35 days																								
23	AFC mods in R9	15.6 days	Tue 14/02/17	Tue 07/03/17	1	51,52		60%	5.62 days																							
24	Remove end caps from AFC onto blue frames	0.5 days	Tue 14/02/17	Tue 14/02/17	57,26	JAG,A.N	100%	0 days																								
25	Remove hydrogen insert from turret	0.5 days	Fri 17/02/17	Fri 17/02/17	64,24	30,32	JAG,MT	100%	0 days																							
26	Stycast temperature sensors to the absorber inlet and outlet pipes	1 day	Wed 22/02/17	Wed 22/02/17	24	36	MT	100%	0 days																							
27	Clean all indium joint surfaces	0.5 days	Wed 22/02/17	Thu 23/02/17	24	36	KG	100%	0 days																							
28	Heat sink the rad shield to the pipework bringing warm gas into the turret	7.6 days	Tue 21/02/17	Fri 03/03/17	32,36			94%	5.62 days																							
29	Clamp and thermal strap made	1 day	Tue 21/02/17	Fri 24/02/17	31	workshp	100%	0 days																								
30	Strip MLI off turret	0.5 days	Wed 22/02/17	Wed 22/02/17	25	31	MT	100%	0 days																							
31	Install thermal strap	0.1 days	Fri 03/03/17	Fri 03/03/17	29,30	33	workshp	0%	5.62 days																							
32	Fit capillary	1 day	Mon 27/02/17	Tue 28/02/17	12	FS+36,33	workshp	100%	0 days																							
33	Re-do MLI on turret	2 days	Fri 03/03/17	Tue 07/03/17	31,32	36	MT	0%	5.62 days																							
34	Get G10 stand off for top-hat	0.25 days	Fri 03/03/17	Fri 03/03/17	66	JAG	0%	7.97 days																								
35	Cover inside of top hat with reflective material	0.5 days	Fri 03/03/17	Fri 03/03/17	69,37	A.N.Oth	0%	7.72 days																								
36	Prepare system to be moved to MICE hall	0.5 days	Tue 07/03/17	Tue 07/03/17	26,28	37	A.N.Oth	0%	5.62 days																							



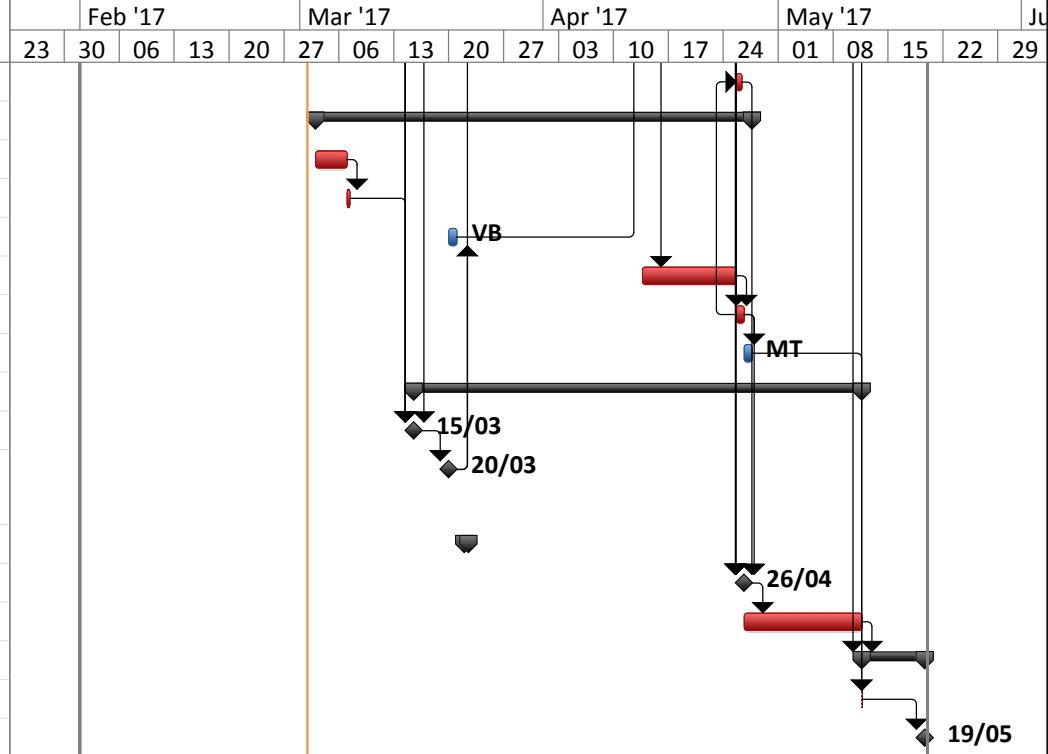
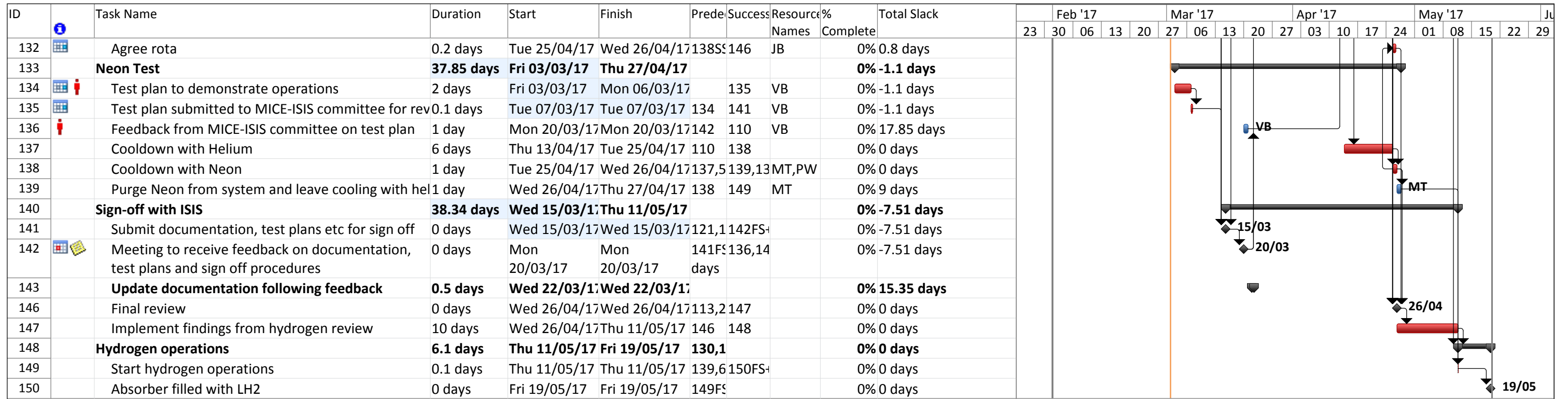
Project: 170201 MICE LH2 system Date: Thu 02/03/17	Total Slack		Project Summary		Inactive Summary		Start-only		Progress	
	Task		External Tasks		Manual Task		Finish-only			
	Split		External Milestone		Duration-only		Deadline			
	Milestone		Inactive Task		Manual Summary Rollup		Critical			
	Summary		Inactive Milestone		Manual Summary		Critical Split			

ID	Task Name	Duration	Start	Finish	Prede	Success	Resource	% Complete	Total Slack	Feb '17							Mar '17				Apr '17				May '17				Jun '17									
										23	30	06	13	20	27	06	13	20	27	03	10	17	24	01	08	15	22	29										
37	Absorber, H2 insert and top-hat ready to be moved to MICE hall	0 days	Tue 07/03/17	Tue 07/03/17	36,35			0%	5.62 days																													
38	Install the hydrogen insert and absorber in beamline	46.85 days	Thu 02/02/17	Mon 10/04/17				5%	26.1 days																													
39	Remove AFC from beamline	6 days	Mon 06/03/17	Mon 13/03/17				0%	1.72 days																													
40	Ramp down magnets	1 day	Mon 06/03/17	Mon 06/03/17	41,42,			0%	1.72 days																													
41	Dismantle central PRY	2 days	Tue 07/03/17	Wed 08/03/17	40	44	JAG,wo	0%	1.72 days																													
42	Disconnect magnet power cables	0.5 days	Tue 07/03/17	Tue 07/03/17	40	44	Richard	0%	3.22 days																													
43	Vent up the bore with inert gas (nitrogen)	0.5 days	Tue 07/03/17	Tue 07/03/17	3,40	44	MT	0%	3.22 days																													
44	Remove bolts connecting the FC to SSU and SSD	1 day	Thu 09/03/17	Thu 09/03/17	41,42	45	JAG,A.N	0%	1.72 days																													
45	Jack apart the SSU and SSD	0.5 days	Fri 10/03/17	Fri 10/03/17	44	46	JAG,wo	0%	1.72 days																													
46	Disconnect cables (thermometry, pressure gauges, etc)	0.1 days	Fri 10/03/17	Fri 10/03/17	45	47	MT	0%	1.72 days																													
47	Withdraw FC from beam-line to off-line position	0.4 days	Fri 10/03/17	Fri 10/03/17	46	51,50,	JAG,wo	0%	1.72 days																													
48	Reconnect cables (thermometry, pressure etc)	0.1 days	Mon 13/03/17	Mon 13/03/17	47	111	MT	0%	46.85 days																													
49	Remove LiH and place in storage bin with argon gas, and return to R9	1 day	Mon 13/03/17	Mon 13/03/17	47,4		JAG,wo	0%	45.95 days																													
50	Remove the spare H turret from FC in Hall and take to R9	0.5 days	Fri 10/03/17	Mon 13/03/17	47	53	JAG,MT	0%	1.72 days																													
51	Fit the hydrogen turret and absorber	7.28 days	Fri 10/03/17	Wed 22/03/17	23,47	63,66,		0%	1.72 days																													
63	Install the safety window	1 day	Wed 22/03/17	Thu 23/03/17	51	67	JAG,MT	0%	1.72 days																													
64	Remove "vacuum tree" from turret in R9	0.1 days	Thu 02/02/17	Fri 03/02/17	65,25		JAG,MT	100%	0 days																													
65	Install "vacuum tree" on turret in Hall	1 day	Wed 15/03/17	Wed 15/03/17	64,53	67	JAG,MT	0%	7 days																													
66	Install G10 stand-off for top-hat	0.25 days	Wed 22/03/17	Wed 22/03/17	73,4,51	67	worksho	0%	2.47 days																													
67	Return AFC into beamline	4.1 days	Mon 27/03/17	Fri 31/03/17	66,51	74,76,		0%	0 days																													
73	Re-connect magnet power cables	0.5 days	Fri 31/03/17	Fri 31/03/17	67	111	Richard	0%	32.35 days																													
74	Re-survey magnets	1 day	Fri 31/03/17	Mon 03/04/17	67	75	TM	0%	30.85 days																													
75	Assemble central PRY	1 day	Mon 03/04/17	Tue 04/04/17	74	111	JAG,wo	0%	30.85 days																													
76	Pump out interface volumes equally	0.25 days	Mon 03/04/17	Mon 03/04/17	67	94,111	MT	0%	4.85 days																													
77	Complete Hydrogen system pipework	38.85 days	Wed 15/02/17	Mon 10/04/17		104		13%	0 days																													
78	Move Klaxon from above hydrogen system	0.1 days	Wed 15/02/17	Fri 03/03/17	146		JAG	30%	26.78 days																													
79	Replace the reconditioned regulators	1 day	Tue 21/02/17	Fri 03/03/17	110		MT,JAG	50%	26.35 days																													
80	Test the PRVs outside the hall	1 day	Mon 20/02/17	Mon 20/02/17	128	FF	MT	100%	0 days																													
81	Leak check the valve panel	1 day	Fri 03/03/17	Wed 08/03/17	86		MT	0%	22.51 days																													
82	Leak-test pipework from bottle packs to cabinet	2 days	Fri 03/03/17	Mon 06/03/17	110		MT	0%	24.85 days																													
83	Order regulators and tails for the nitrogen packs	0.1 days	Tue 21/02/17	Tue 21/02/17	84		JG	100%	0 days																													
84	Receive regulators and tails for the nitrogen pack	0.1 days	Fri 03/03/17	Fri 03/03/17	83	110	JG	0%	26.75 days																													
85	Drill new holes in the cover panels for the H2 gas panel	1.8 days	Fri 03/03/17	Wed 22/03/17	86		JAG,wo	0%	12.55 days																													
86	Install cover panels on the valve panel	0.5 days	Wed 22/03/17	Thu 23/03/17	81,85	110	worksho	0%	12.55 days																													
87	Connect H transfer line from turret to cabinet	6.75 days	Fri 31/03/17	Mon 10/04/17				0%	0 days																													
88	Crane into position	1 day	Fri 31/03/17	Mon 03/04/17	67	89	JAG,MT	0%	0 days																													
89	Fix position using 1 VCR gaskets	0.5 days	Mon 03/04/17	Mon 03/04/17	88	90	MT	0%	0 days																													
90	Install vent line to 1/4 connector	1 day	Fri 07/04/17	Mon 10/04/17	89		MT	0%	0 days																													



Project: 170201 MICE LH2 system
Date: Thu 02/03/17

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