

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names	% 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	
1	Retest with Helium	8 days	Fri 10/02/17	Tue 21/02/17		JB	100%																													
2	Initial preparations	33.45 days?	Wed 01/02/17	Mon 20/03/17			35%																													
3	Purchase cylinder(s) of nitrogen gas	0.1 days	Wed 01/02/17	Wed 01/02/17		MT	0%																													
4	Purchase cylinder(s) of argon gas	0.1 days	Wed 01/02/17	Wed 01/02/17		MT	0%																													
5	Purchase Neon	0.1 days	Wed 01/02/17	Wed 15/02/17		MT	100%																													
6	Check availability of 1" VCR gaskets	0.25 days	Wed 22/02/17	Wed 22/02/17		MT	100%																													
7	Check availability of vacuum gaskets	0.5 days	Wed 22/02/17	Wed 22/02/17		MT	100%																													
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%																													
10	Find indium	0.2 days	Wed 01/02/17	Wed 01/02/17		MT	100%																													
11	Order capillary	0.2 days	Fri 03/02/17	Wed 15/02/17		VB	100%																													
12	Source pipework for Nitrogen venting gas to transfer line	0.5 days	Wed 22/02/17	Thu 02/03/17		MT	33%																													
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%																													
14	Find DN125 vacuum pipe to turbo and connectors	0.5 days	Wed 15/02/17	Wed 15/02/17		MT	100%																													
15	Get adaptor for connector on turret to PG05 made	1 day	Wed 15/02/17	Thu 23/02/17		MT	50%																													
16	Order spacer ring for top-hat	5 days	Wed 22/02/17	Tue 28/02/17		JT,JAG[30%]	0%																													
17	Set up webcams for shifters to monitor system	3 days	Wed 22/02/17	Fri 24/02/17		CM	0%																													
18	Label all valves on hardware, including general labels for bottle supplies	1 day	Fri 17/03/17	Mon 20/03/17		VB	0%																													
19	AFC mods in R9	21.42 days	Fri 10/02/17	Tue 14/03/17			23%																													
20	Remove end caps from AFC onto blue frames	1 day	Tue 14/02/17	Fri 17/02/17		JAG,A.N	100%																													
21	Remove hydrogen insert from turret	0.75 days	Thu 16/02/17	Wed 22/02/17	20,58	JAG,MT	100%																													
22	Stycast temperature sensors to the absorber inlet and outlet pipes	2 days	Wed 22/02/17	Fri 24/02/17	20	VB,KG	0%																													
23	Clean all indium joint surfaces	0.5 days	Wed 22/02/17	Fri 24/02/17	20	KG	50%																													
24	Heat sink the rad shield to the pipework bringing warm gas into the turret	16.79 days	Fri 10/02/17	Tue 07/03/17			26%																													
29	Fit capillary	1 day	Tue 07/03/17	Wed 08/03/17	11FS+2 workshop days,2		0%																													
30	Make G10 stand off for top-hat	1 day	Wed 01/03/17	Thu 02/03/17		JAG	0%																													
31	Cover inside of top hat with reflective material	1 day	Wed 22/02/17	Thu 23/02/17		A.N.Oth	0%																													
32	Prepare system to be moved to MICE hall	2 days	Wed 08/03/17	Tue 14/03/17	22,24,	MT,JAG	0%																													
33	Install the hydrogen insert and absorber in beamline	45.73 days	Wed 01/02/17	Thu 06/04/17			10%																													
34	Remove AFC from beamline	5.2 days	Mon 06/03/17	Mon 13/03/17			0%																													
45	Fit the hydrogen turret and absorber	6.78 days	Tue 14/03/17	Wed 22/03/17	19,41		0%																													
46	Transport modified turret and the absorber to MICE hall	0.5 days	Tue 14/03/17	Wed 15/03/17	19	JAG,MT	0%																													
47	Fit turret and absorber	0.5 days	Tue 14/03/17	Tue 14/03/17	44	JAG,MT	0%																													
48	Reconnect all gas lines and pumps to top-plate for leak checking offline	0.5 days	Tue 14/03/17	Wed 15/03/17	47	MT	0%																													
49	Reconnect pipework between the turret and the absorber, including indium joints	1 day	Tue 14/03/17	Fri 17/03/17	47,10	VB,KG	0%																													

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	Split		External Tasks		Inactive Summary		Manual Summary		Critical	
	Milestone		External Milestone		Manual Task		Start-only		Critical Split	
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89	Complete C&M	48.55 days	Wed 01/02/17	Tue 11/04/17			37%																																										
90	Fit door on cabinet with emergency stop button and upgrade the keys	1 day	Wed 22/02/17	Thu 23/02/17		PW	0%																																										
91	Install level sensor system	0.5 days	Thu 23/02/17	Thu 23/02/17		PW	0%																																										
92	Commision compressor control	0.1 days	Thu 23/02/17	Thu 23/02/17		PW	0%																																										
93	Hydrogen team agree operating sequences	10.93 days	Wed 01/02/17	Mon 13/03/17		MT[10%	73%																																										
94	Send operating sequences to MICE-ISIS safety committee for review	0.1 days	Fri 17/03/17	Fri 17/03/17	93	VB	0%																																										
95	Modify operating sequence following comments	1 day	Fri 31/03/17	Mon 03/04/17	794FS+1	VB	0%																																										
96	Update the program sequences offline	3 days	Mon 03/04/17	Thu 06/04/17	95		0%																																										
97	Testing the program sequences	3 days	Thu 06/04/17	Tue 11/04/17	71,96	PW	0%																																										
98	Calibrating Hydrogen sensors in alarm system	1 day	Thu 16/03/17	Thu 16/03/17		JG,MT,M	0%																																										
99	UPS load test	0.5 days	Wed 22/02/17	Wed 22/02/17		IM	0%																																										
100	UPS - inverter card	0.5 days	Wed 22/02/17	Wed 22/02/17		IM	0%																																										
101	Training	28.1 days?	Wed 01/02/17	Mon 13/03/17			0%																																										
108	Safety Admin	28.51 days	Mon 06/02/17	Fri 17/03/17			6%																																										
109	Update P&ID diagram to correctly reflect pipework outside MICE hall	1 day	Wed 15/02/17	Wed 22/02/17		VB	80%																																										
110	Update operating instructions	3 days	Mon 13/03/17	Thu 16/03/17	102,93	VB	0%																																										
111	Put in formal change request notice for changes made inside the turret (specifically for the	1 day	Fri 10/02/17	Mon 13/02/17		VB	0%																																										
112	Get mobile phone for hydrogen on-call expert	0.2 days	Tue 21/02/17	Wed 01/03/17		VB	0%																																										
113	Tidy hydrogen room	1 day	Tue 21/02/17	Wed 01/03/17		VB,MT	0%																																										
114	Appropriate paperwork available in the hydrogen room - P&ID, manula, lavel vac gauges etc	1 day	Mon 13/02/17	Thu 02/03/17		VB	0%																																										
115	Update website with all testing etc	2 days	Mon 06/02/17	Wed 08/02/17		VB	0%																																										
116	Fix links in the MICE-ISIS working group docs in link:	1 day	Wed 08/02/17	Thu 09/02/17		VB	0%																																										
117	Action List	17.45 days	Wed 22/02/17	Fri 17/03/17			0%																																										
118	1. Install anit-static wristband on hydrogen bottle cage	0.5 days	Mon 27/02/17	Mon 27/02/17		CM	0%																																										
119	2. Maintenance plan for safety critical componen	2 days	Wed 22/02/17	Thu 23/02/17		MC,VB	0%																																										
120	3. Safety file needs to be signed off	0.5 days	Mon 13/03/17	Fri 17/03/17		VB	0%																																										
121	7. Consolidate emergency procedures	1 day	Thu 09/03/17	Fri 10/03/17		VB	0%																																										
122	Operational Admin	8.6 days	Wed 22/02/17	Mon 06/03/17			0%																																										
123	Arrange on-call allowance for those not normally on-call	1 day	Thu 02/03/17	Fri 03/03/17		VB	0%																																										
124	Understand how H2 system data is transferred to operations	1 day	Fri 03/03/17	Mon 06/03/17		VB	0%																																										
125	Agree rota	1.1 days	Wed 22/02/17	Mon 27/02/17		VB,JB	0%																																										
126	Neon Test	40.92 days	Mon 27/02/17	Thu 27/04/17			0%																																										
127	Test plan to demonstrate operations	2 days	Mon 27/02/17	Wed 01/03/17		VB	0%																																										
128	Test plan submitted to MICE-ISIS committee for rev	0.1 days	Wed 01/03/17	Wed 01/03/17	127	VB	0%																																										
129	Feedback from MICE-ISIS committee on test plan	1 day	Tue 21/03/17	Wed 22/03/17	134	VB	0%																																										
130	Cooldown with Helium	6 days	Tue 11/04/17	Fri 21/04/17	129,97		0%																																										
131	Cooldown with Neon	1 day	Fri 21/04/17	Mon 24/04/17	130	MT,PW	0%																																										

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