

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	% Complete	Qtr 1, 2	Qtr 2, 2	Qtr 3
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
1		Preparation and Testing in R9	95 days?	Mon 15/02/	Fri 24/06/16			12%			
2		Absorber leaks	24 days	Mon 15/02/	Thu 17/03/16			21%			
3		Tidy mating surface on leaking absorbers	2 days	Mon 15/02/	Tue 16/02/16			100%			
4		Make indium wire	1 day	Mon 15/02/	Mon 15/02/16			100%			
5		Investigate defect in Aluminium	5 days	Thu 10/03/1	Wed 16/03/16			0%			
6		Re-assemble absorber	2 days	Thu 10/03/1	Fri 11/03/16	3,4		0%			
7		Leak check and thermal cycle	3 days	Mon 14/03/	Wed 16/03/16	6		0%			
8		Wrap absorber in insulation (Al tape/MLI)	1 day	Thu 17/03/1	Thu 17/03/16	7		0%			
9		Feedthrough leaks	23 days	Mon 15/02/	Thu 17/03/16			31%			
10		Remove feedthrough from top-plate	0.5 days	Mon 15/02/	Mon 15/02/16			100%			
11		Leak check feedthroughs	2 days	Tue 16/02/1	Wed 17/02/16	10		100%			
12		Replace o-ring	0.5 days	Thu 10/03/1	Thu 10/03/16	11		0%			

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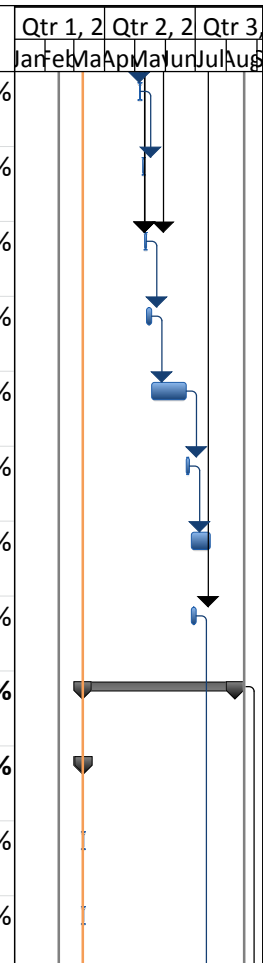
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				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
13		Re-solder three feedthroughs (including new heater wire)	5 days	Thu 10/03/16	Thu 17/03/16	12		0%			
14		Work to improve thermal performance	28 days	Mon 15/02/	Wed 23/03/16			24%			
15		Build thermal model of system	5 days	Mon 15/02/	Mon 14/03/16			50%			
16		Fit heater	27.2 days	Mon 15/02/	Wed 23/03/16			35%			
17		Source heater	10 days	Mon 15/02/	Wed 16/03/16			50%			
18		Manufacture heater mount	1 day	Mon 29/02/	Thu 17/03/16	17		80%			
19		Fit heater on pipework	1 day	Thu 17/03/16	Fri 18/03/16	18		0%			
20		Internal heater wiring	3 days	Fri 18/03/16	Wed 23/03/16	19		0%			
21		External heater wiring	1 day	Thu 10/03/16	Thu 10/03/16			0%			
22		Power supply for heater	0.5 days	Thu 10/03/16	Thu 10/03/16			0%			
23		Check pipework in turret	1 day	Thu 10/03/16	Thu 10/03/16			0%			
24		Bend H2 pipework away from OVC	1 day	Thu 10/03/16	Thu 10/03/16			0%			

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				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
25		Source G10 stand-off and/or thicker spacer ring	10 days	Thu 10/03/16	Wed 23/03/16			0%			
26		Modify wiring to absorber heaters	0.5 days	Thu 17/03/16	Thu 17/03/16	7		0%			
27		Preparation for testing in R9	44 days?	Thu 10/03/16	Tue 10/05/16			0%			
28		Compressor and pipework connected	1 day	Thu 10/03/16	Thu 10/03/16			0%			
29		Controls rack complete and connected	3 days	Thu 10/03/16	Mon 14/03/16			0%			
30		Controls and monitoring software ready	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
31		Vacuum system assembled	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
32		Pressure gauge fitted	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
33		Adequte bursting disks and pressure relief valves fitted	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
34		End Caps	44 days	Thu 10/03/16	Tue 10/05/16			0%			
35		Paperwork in place	10 days	Thu 10/03/16	Wed 23/03/16			0%			
36		End caps ordered	1 day	Thu 24/03/16	Thu 24/03/16	35		0%			

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				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
37		End caps delivered	1 day	Fri 06/05/16	Fri 06/05/16	36FS+30 days		0%			
38		End caps fitted	2 days	Mon 09/05/16	Tue 10/05/16	37		0%			
39		Assembled cryostat ready to go	2 days	Wed 11/05/16	Thu 12/05/16	2,9,14,27		0%			
40		Leak check	3 days	Fri 13/05/16	Tue 17/05/16	39		0%			
41		Cooldown	25 days	Wed 18/05/16	Tue 21/06/16	40		0%			
42		Review performance	3 days	Wed 22/06/16	Fri 24/06/16	41		0%			
43		Cooldown FC and allow absorber to warm up	15 days	Mon 27/06/16	Fri 15/07/16	42		0%			
44		Move FC#2 into MICE hall and FC#1 back to R9	5 days	Mon 27/06/16	Fri 01/07/16	1		0%			
45		Preparation for Operation in MICE hall	109 days?	Thu 10/03/16	Tue 09/08/16			0%			
46		Outstanding review actions	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
47		Update operating instructions	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
48		Maintenance plan for safety critical components	1 day?	Thu 10/03/16	Thu 10/03/16			0%			



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				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
49		Compile safety file	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
50		Install hydrogen bottle pack charging station and N2 jacketed transfer line	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
51		Install vacuum rated hand-valves upstream of all vacuum gauges	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
52		Develop comprehensive emergency procedures	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
53		Define a training scheme for LH2 system operators	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
54		Implement a formal Change Request Not	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
55		Revise control system GUI	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
56		Consider minor hardware modifications in line with specific recommendations	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
57		Controls and Monitoring	13 days?	Thu 10/03/16	Mon 28/03/16			0%			
58		Door on cabinet and upgrade keys	1 day?	Thu 24/03/16	Thu 24/03/16		PW	0%			
59		Remove non-H2 system wiring from H2 system ducting	1 day?	Thu 10/03/16	Thu 10/03/16			0%			
60		Level sensors operational	1 day?	Fri 25/03/16	Fri 25/03/16		PW	0%			

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									Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
61		Update program sequences	10 days	Thu 10/03/16	Wed 23/03/16		PW	0%								
62		Commision compressor control	2 days	Thu 10/03/16	Fri 11/03/16			0%								
63		Replace faulty sensor in gas detection panel	1 day?	Mon 28/03/16	Mon 28/03/16		PW	0%								
64		Miscellaneous	1 day?	Thu 10/03/16	Thu 10/03/16			0%								
65		Train system operators	1 day?	Thu 10/03/16	Thu 10/03/16			0%								
66		Reinstall FC#2 in MICE hall	5 days	Mon 04/07/16	Fri 08/07/16	44		0%								
67		Leak test	2 days	Mon 11/07/16	Tue 12/07/16	66		0%								
68		Actions to be completed with installed system	1 day	Wed 13/07/16	Wed 13/07/16	67		0%								
69		Cooldown test with Helium	5 days	Thu 14/07/16	Wed 20/07/16	68		0%								
70		Inspection by ISIS	3 days	Thu 21/07/16	Mon 25/07/16	69		0%								
71		Implement changes as requested by ISIS safety inspection	10 days	Tue 26/07/16	Mon 08/08/16	70		0%								
72		Final ISIS inspection	1 day	Tue 09/08/16	Tue 09/08/16	71		0%								

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									Jan	Feb	Mar	Apr
73		Start Hydrogen cooldown	0.5 days	Wed 10/08/	Wed 10/08/16	45						
74		Hydrogen absorber ready	1 day?	Wed 17/08/	Thu 18/08/16	73FS+5 days						



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