

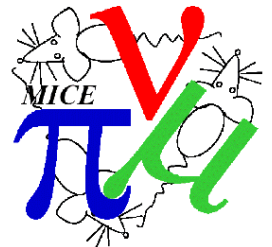


Step IV Schedule

CM41 - RAL

Roy Preece

10th February 2014



Schedule

- Very intensive period in the run down to completion
- Legs for the North fit check and South installation are in the country and will arrive at RAL Thursday
- When the South side plates arrive we will operate a long shift operation –
 - 6am – 6pm Monday to Thursday
 - 6am – 2pm Friday
- Teams
 - Current hall technicians – 2 Mechanical and 2 electrical
 - Imperial College – 2 mechanical
 - RAL workshop – 2 mechanical
 - DL workshop – 2 mechanical
- In conjunction with the PRY installation
 - Electrical installation to the devices
 - Tracker team to install the waveguides
 - Hydrogen team to install the transfer line and testing
 - Device alignment with the survey team
 - Installation of the coolers and replacement of the power feedthroughs in the solenoids
 - Installation of the manifold vacuum system and turbos



Schedule

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1	Milestones	24 days	09 Apr '15	13 May '15		
2	South Side Complete	0 days	09 Apr '15	09 Apr '15	56	
3	North Side Complete	0 days	29 Apr '15	29 Apr '15	63	
4	PRY Complete	0 days	13 May '15	13 May '15	69	
5	Shipping	44 days	16 Feb '15	15 Apr '15		
6	PRY South Legs arrive in the hall	0 days	16 Feb '15	16 Feb '15		
7	PRY South Plates arrive	0 days	16 Mar '15	16 Mar '15		
8	PRY North Legs arrive in the hall (Required)	0 days	09 Apr '15	09 Apr '15	27SS	
9	PRY North Plates arrive (Required)	0 days	15 Apr '15	15 Apr '15	59SS	
10	Survey and Alignment	25 days	05 Feb '15	09 Mar '15		
11	Rolling platforms and devices fixed on beamline	0.5 days	05 Feb '15	05 Feb '15		
12	Survey current magnet locations	2 days	05 Feb '15	09 Feb '15	11	
13	Intermittant Alignment work during North leg fitup	10 days	16 Feb '15	02 Mar '15	17	
14	Survey North Legs	2 days	19 Feb '15	23 Feb '15	20SS	
15	Survey South Legs	2 days	08 Mar '15	09 Mar '15	42SS	
16	Assembly North	43 days	16 Feb '15	13 Apr '15		
17	Weld Adjustment nuts to bottom of legs	0.5 days	16 Feb '15	16 Feb '15	6	
18	Crane frames and bolt to bridge plates	2 days	16 Feb '15	18 Feb '15	17	
19	Install outer bridge plates and tie bars	1 day	18 Feb '15	19 Feb '15	18	
20	Set height with adjustment screws - Laser tracking	2 days	19 Feb '15	23 Feb '15	19	
21	Lock off screws to maintain	0.5 days	23 Feb '15	23 Feb '15	20	
22	Measure and cut shims	2 days	24 Feb '15	25 Feb '15	21	
23	Install shims	0.5 days	26 Feb '15	26 Feb '15	22	
24	Check height setting with Laser tracker - adjust shims if required	2 days	26 Feb '15	02 Mar '15	23	
25	Remove legs, shims and bridge plates after marking	1 day	02 Mar '15	03 Mar '15	24	
26	Install inner bridge plates	0.5 days	09 Apr '15	09 Apr '15	34	
27	Install shims and legs	1 day	09 Apr '15	10 Apr '15	26	
28	Install outer bridge plates	0.5 days	10 Apr '15	10 Apr '15	27	
29	Final alignment check	1 day	13 Apr '15	13 Apr '15	28	
30	Device Operations	28.5 days	03 Mar '15	08 Apr '15		
31	Install moving platform rails	0.5 days	03 Mar '15	03 Mar '15	25	
32	Move devices off line	0.5 days	04 Mar '15	04 Mar '15	31	
33	Move devices online and bolt together	4 days	31 Mar '15	03 Apr '15	55	
34	Final alignment of devices	3 days	06 Apr '15	08 Apr '15	33	
35	Attach vacuum equipment and leak check device interspace	2 days	06 Apr '15	07 Apr '15	33	
36	Assembly South	11.5 days	03 Mar '15	16 Mar '15		
37	Pin and dowel leg packs	1 day	03 Mar '15	04 Mar '15	25	
38	Disassemble leg packs	0.5 days	04 Mar '15	04 Mar '15	37	
39	Remove hinged platforms from South Mezzanine	1 day	03 Mar '15	04 Mar '15	25	
40	Lift and bolt to back bridge plate all legs	2 days	05 Mar '15	06 Mar '15	39,32,38	
41	Install front bridge plate	1 day	07 Mar '15	07 Mar '15	40	
42	Set height with adjustment screws - Laser tracking	2 days	08 Mar '15	09 Mar '15	41	
43	Lock off screws to maintain	0.5 days	10 Mar '15	10 Mar '15	42	
44	Measure and cut shims	2 days	10 Mar '15	12 Mar '15	43	
45	Install shims	0.5 days	12 Mar '15	12 Mar '15	44	
46	Check height setting with Laser tracker - adjust shims if required	2 days	13 Mar '15	16 Mar '15	45	

