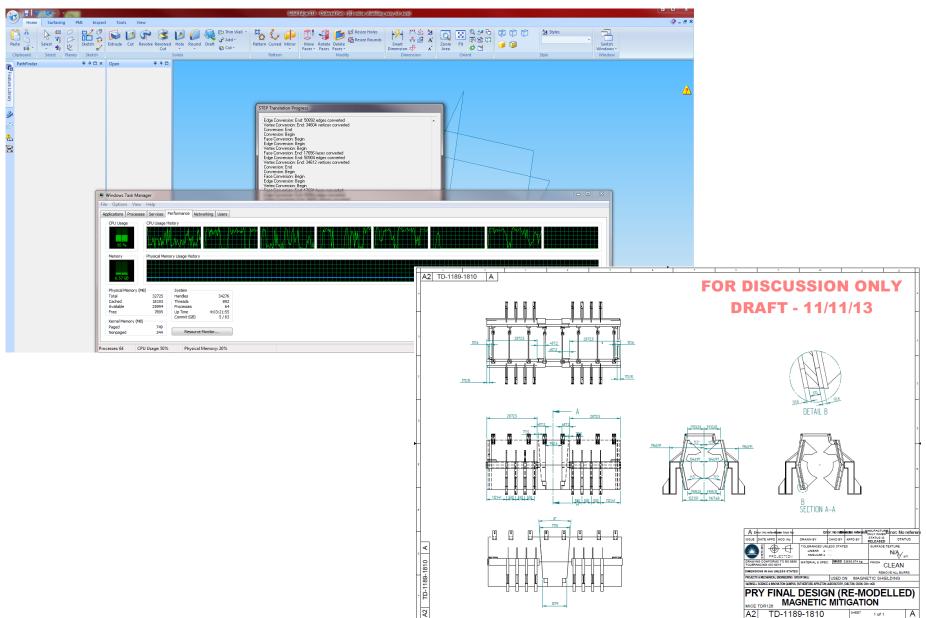
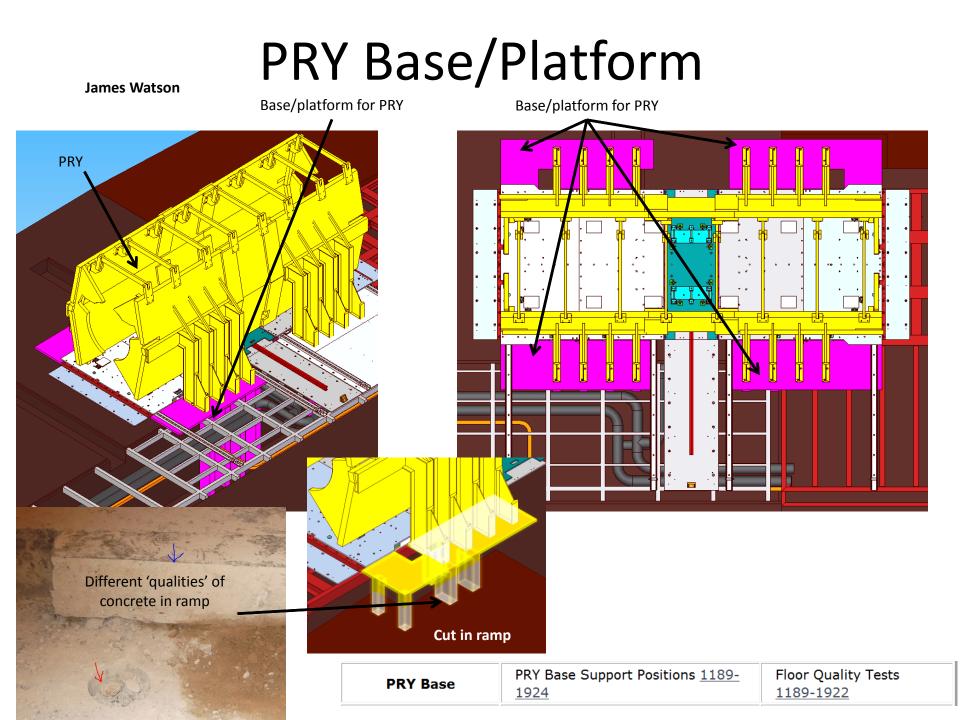
PRY Integration Progress

magnetic field mitigation meeting 26/11/13

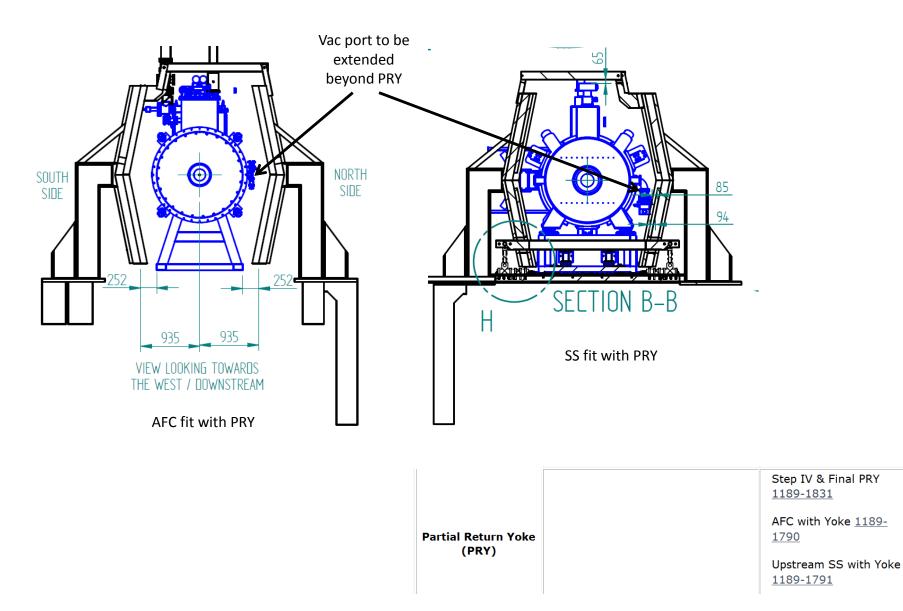
Latest Geometry

Steve Plate

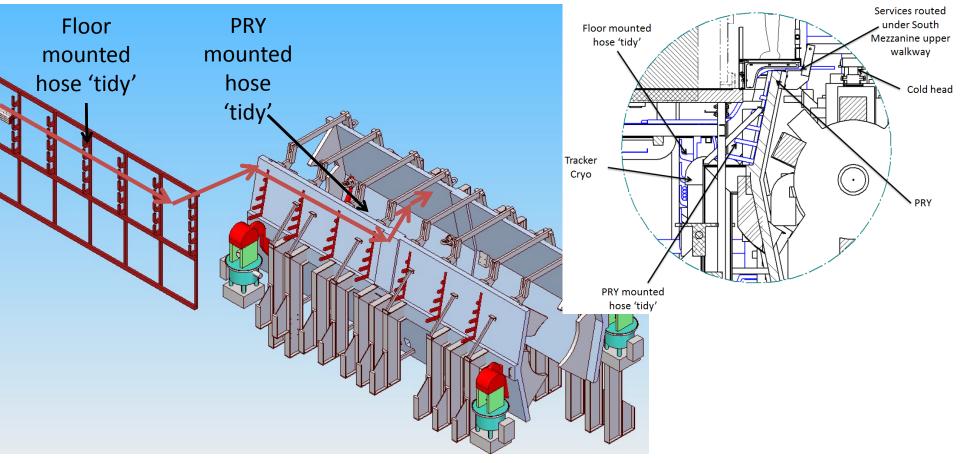




Devices

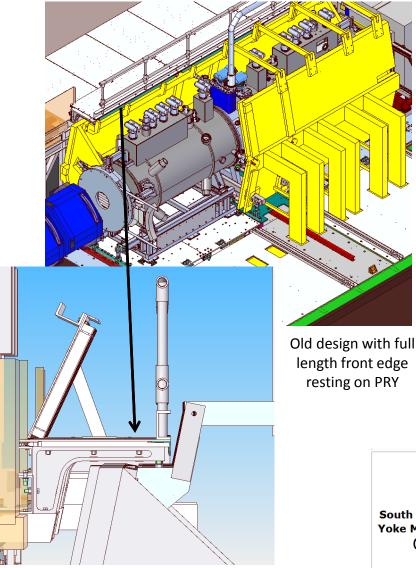


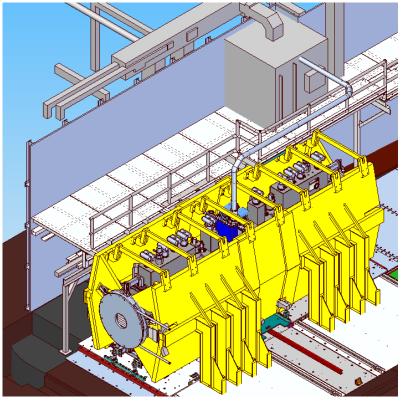
Experiment Services



Partial Return Yoke (PRY) Services with Yoke <u>1189-1794</u>

South Mezzanine





New design, most of front edge removed and those left are mechanically independent of the PRY

		South Mezz (Cantilever - Cut) Assy = <u>1189-1848</u>			
South Mezzanine -	South Mezz (PRY, Tracker, Cantilever, Cut)	Hinged Platform Mod (PRY) [was1859]= <u>1189-1892</u> Cantilever Support Step [was1870]= <u>1189-1895</u>			
Yoke Modifications (2013)	[was1849]= <u>1189-</u> <u>1897</u>				
		Simple Stepped Platform Boost = <u>1189-1841</u>			

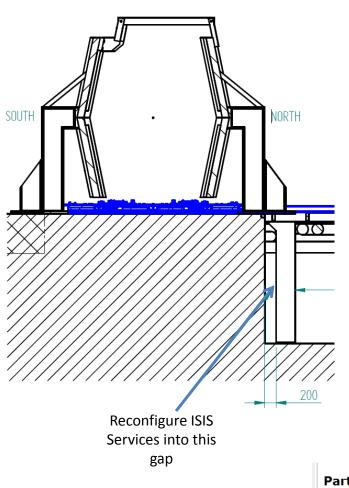
H2 pipes etc

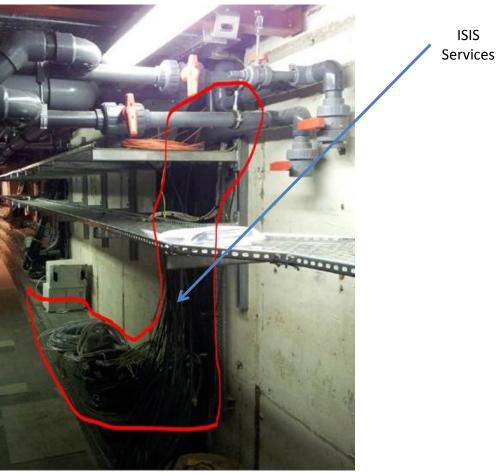


Pipes & frame will need to be removed during PRY assembly and absorber change

These front edge platform sections to be removed at east end

Trench

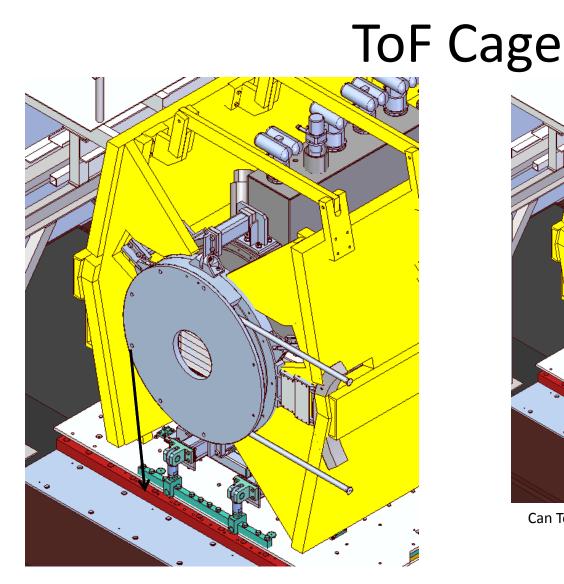


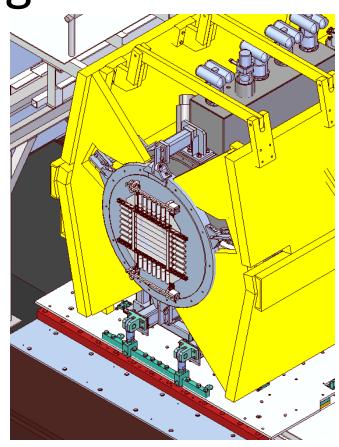


Partial Return Yoke (PRY)

Trench Services with Yoke <u>1189-1796</u>

Trench Roof Assembly 1189-1485





Can ToF 1 be exposed now that PRY in place?

ToF Cage (ToF 1) fit with the PRY, ToF assembly only operational when PRY not in place (also laser tracker nests are not visible?)

Partial Return Yoke (PRY) Step IV & Final PRY <u>1189-1831</u>

Tracker Cryo & Waveguides

Craig Macwaters, Geoff Barber, Adam Dobbs, working on waveguide routing through PRY



Schedule

To RAL

Leg delivery 19/05/14

Following Schedule Based On...

South side delivery 19/05/14

North side delivery 01/07/14

	Qtr 3, 2014		
Apr May Jun	n Jul Aug		, 2014 Nov Dec
19/05	05		
4.19/05			
	01/07	,	
	0%		
-			
- 0%			
-0%			
	0%		
⊳n0%			
×0%			
20%			
26 ,0%			
0%			
0%	6		
60%	%		
A 04	04/06		
1			
•			
- 0%			
×0%			
×0%			
0%			
0%			
60%			
70%			
×0 %			
at 14/05	5		
·			
	50%	×0%	0%

Schedule

			·						· •		
ID 👩	Task Name	Duration	Start	Finish	Predecessors	Successor	sResource Names	Cost	Qtr 2, 2013 Qtr 3, 2013 Qtr 4,		Qtr 2, 2014 Qtr 3, 2014 Qtr 4, 2014
53	Yoke Installation	370 days	Mon 20/05/13	Fri 17/10/14				£7.000.0	ApriMaviJun Jul Aug Sep Oct	Novi Deci Jan i Feb i Mari /	Apr May Jun Jul Aug Sep Oct Nov Dec
54	Design, Manufacture & approval of lifting tooling		Mon 20/05/13	Fri 01/11/13		57	Contractor	£7,000.0		0%	
55	Deliver south side frame from storage	1 day	Mon 19/05/14	Mon 19/05/14	1	56	HeavyGang	£0.0	D		N 106
56	Remove South Mezz front edge	3 davs	Tue 20/05/14	Thu 22/05/14	55	57	Hall	£0.0	D		Ada a
57	Fit south side frame	6 days	Fri 23/05/14	Fri 30/05/14	56,54	58	BNL, JT, Hall	£0.0	D		10%
58	Fit south side services (frame mount only)	30 days	Mon 02/06/14	Fri 11/07/14	57	63	Hall	£0.0	D		* 0%
59	Deliver remainder of south yoke to hall from storage	2 days	Mon 19/05/14	Tue 20/05/14	2	60	HeavyGang	£0.0	D		⊷5 %
60	Fit south end-side plates (not middles)	20 days	Thu 05/06/14	Wed 02/07/14	59,20,42	65,61	BNL, JT, Hall	£0.0	D		** 0%
61	Fit south side doublers except top-outers	1 day	Thu 03/07/14	Thu 03/07/14	60	62	Hall, BNL, JT	£0.0	D		70%
62	Fit south V-Plate connections	2 days	Fri 04/07/14	Mon 07/07/14	61	63		£0.0	D		3 <mark>0</mark> 9
63	Fit Yoke mount services management	10 days	Mon 14/07/14	Fri 25/07/14	58,62	64	Hall, BNL, JT	£0.0	D		2 0%
64	Re-Fit South Mezz front edge	3 days	Mon 28/07/14	Wed 30/07/14	42,63	65	Hall, BNL, JT	£0.0	D		Y 0%
65	Move Experimental devices into place & fix (assume already on moving platforms)	15 days	Thu 31/07/14	Wed 20/08/14	60,64	67,66	Hall,BNL,JT	£0.0	D		4 96
66	Fit south side middles & doublers	3 days	Thu 21/08/14	Mon 25/08/14	65	68,76	BNL, JT, Hall	£0.0	South side install	25/06/14	× 0%
67	Fit vacuum pump down extensions to devices	2 days	Thu 21/08/14	Fri 22/08/14	47,65	68	Hall	£0.0			70%
68	Fit north side frame	5 days	Tue 26/08/14	Mon 01/09/14	67,66	69	BNL, JT, Hall	£0.0	D		¥ 0%
69	Deliver remainder of north yoke to hall from storage	2 days	Tue 02/09/14	Wed 03/09/14	68,3	70	HeavyGang	£0.0	D		0%
70	Fit north side-end plates	20 days	Thu 04/09/14	Wed 01/10/14	69	71	BNL, JT, Hall	£0.0	D		0%
71	Fit northe side doublers & middle	3 days	Thu 02/10/14	Mon 06/10/14	70	72	Hall, BNL, JT	£0.0	D		~ 0%
72	Fit S-V-Plate connections	2 days	Tue 07/10/14	Wed 08/10/14	71	73		£0.0	D		0%
73	Fit PRY cross-bars	2 days	Thu 09/10/14	Fri 10/10/14	72	74		£0.0		47/40/44	0%
74	Fit SS tie-downs, cut in-fills & fit	5 days	Mon 13/10/14	Fri 17/10/14	73	75	Hall	£0.0		17/10/14	
75	Inspection - Sign off	0 days	Fri 17/10/14	Fri 17/10/14	74		BNL,JT	£0.0		14 4 14 4	AT 17/10
76	Services Installation	50 days	Tue 26/08/14	Mon 03/11/14	66		DL,Hall	£2,000.0	Services install 20	0/11/14	

All of the above based on realistic timescales, no added contingency

Cost estimates for Integration only & need refining