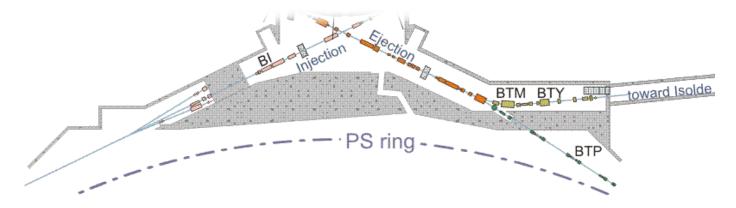




Bulding 245 schedule update



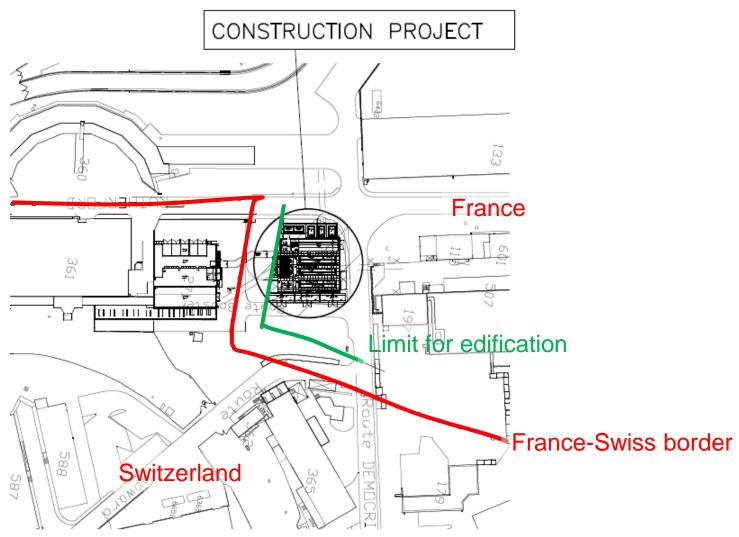
LIU Booster Meeting 13-09-2012
Serge Pittet, Fulvio Boattini
TE-EPC



Building 245 Position



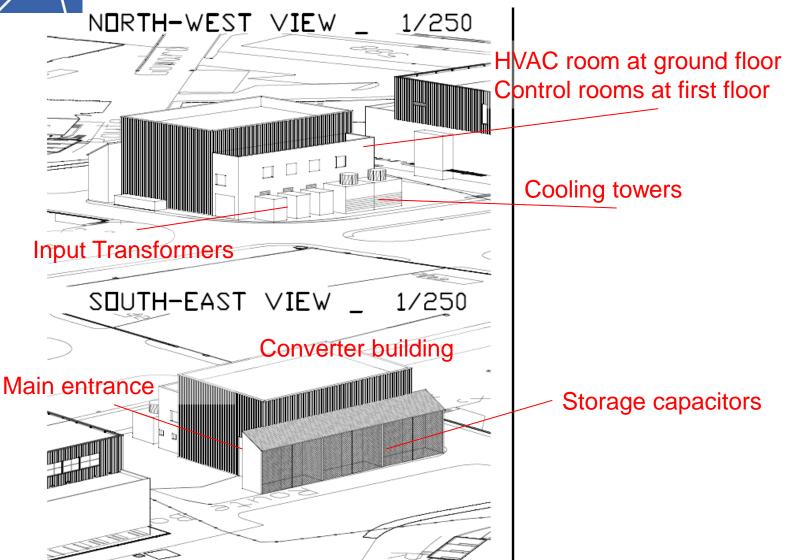
SITUATION PLAN _ 1/1000



Building 245 Preliminary Design

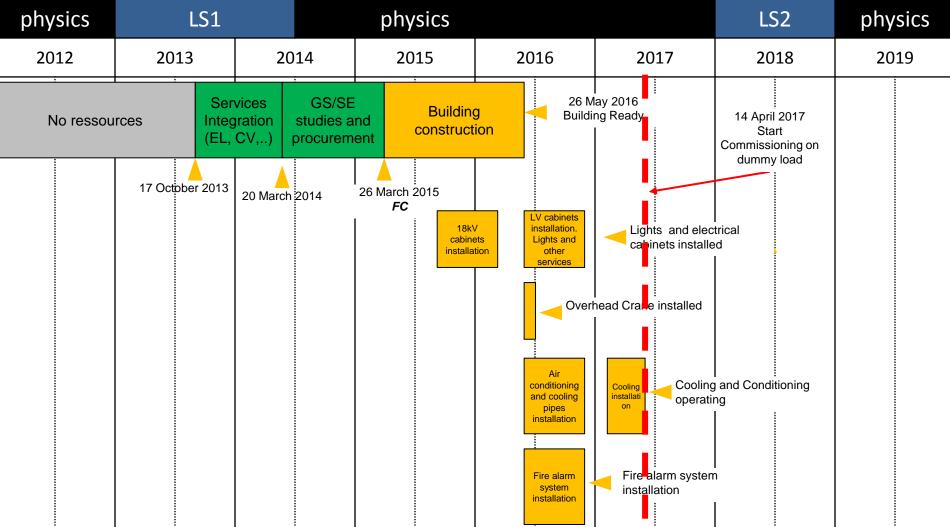












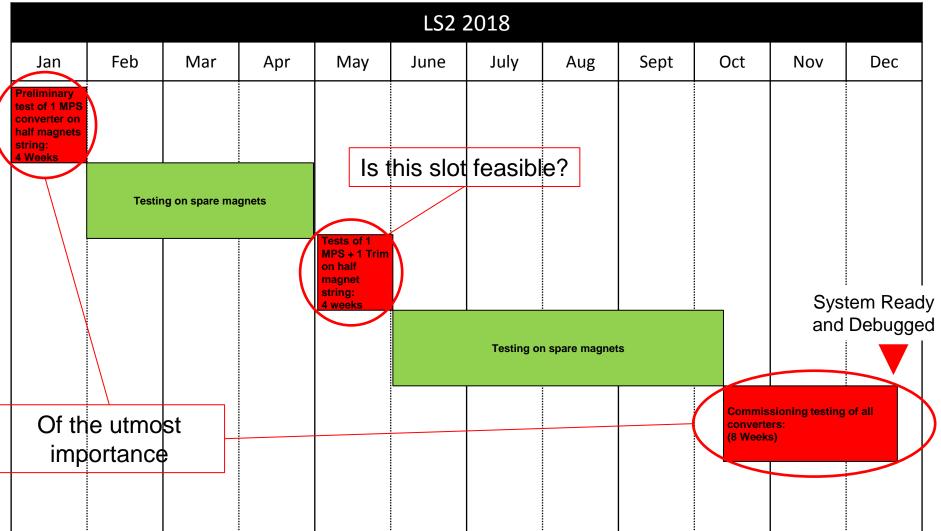




physics	LS1				phy	sics					LS2	physics
2012	20)13	2014		20	2015		2016		017	2018	2019
No ressources Inte		Integ	vices gration CV,)	GS/SE studies and procurement		Building construction			26 May 2016 Building Ready		14 April 2017 Start Commissioning on dummy load	
	17 Oct	ober 2013	20 March	2014	26 March 2	2015						
			Power convert		ter Power co n constru		onverter Install		ower verter ation and old ssioning	Power converter commissioning on test magnets	System commissioning on PSB magnets	
			20	June 2014 FC			2	5 August 20	016			









MPSB Time Schedule: Building construction

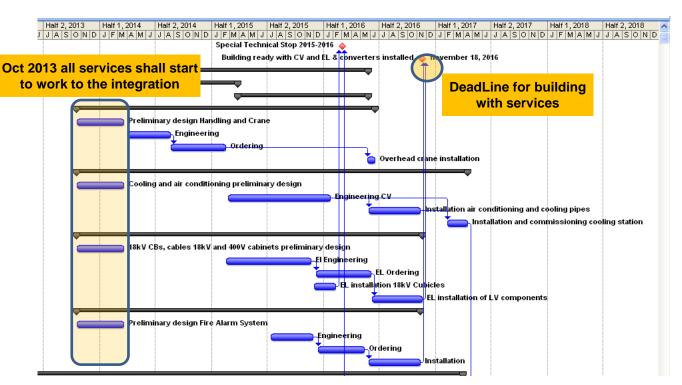


Integration is the first phase.

Planned starting: October 2013

Required resources: 1 Engineer + 1 CAD designer for the most involved services

Not a Full Time activity during the all integration phase





Bulding 245 schedule update



THANKS FOR THE ATTENTION

QUESTIONS?

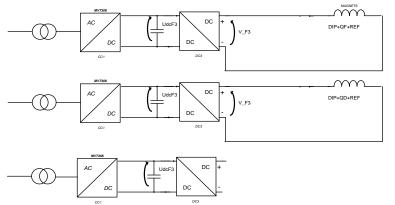
SPARE SLIDES

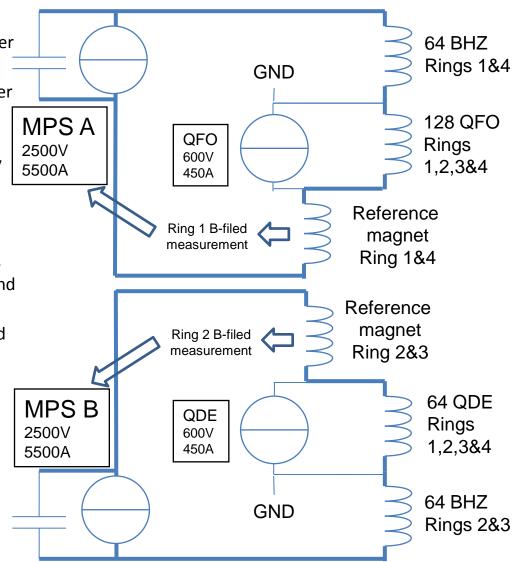


MPSB Technical Baseline



- Overall voltage available increases and would allow a reduction of the RMS current using a faster ramping.
- The capacitor bank totally absorbs the peak power on the 18kV network. Meyrin SVC would then become optional.
- Spare sharing between MPS A and B and possibly with POPS.
- Only a few new cables needed between the reference magnet (BCER) and the MPS.
- New B-field regulation to minimize eddy currents and saturation effects impact at higher current and acceleration rate.
- Some additional trim converters might be needed for shorter dipoles in the injection region.

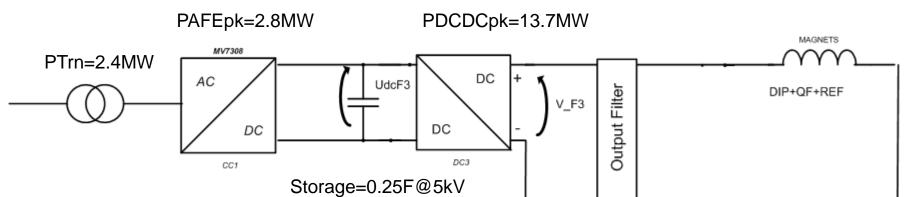


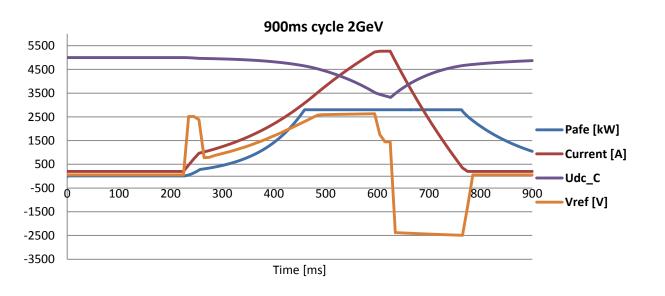




MPSB Preliminary dimensioning







Output ripple specification to be published soon

Trim(s?) still to be dimensioned



MPSB Time Schedule: Building construction



Doing the integration Now and until beginning LS1 will allow GS/SE to start with specification.



physics	LS	51		physi	ics			LS2	physics
2012	2012 2013		2014		5	2016	2017	2018	2019
		GS/SE Engineering	Build constru	Insta	allation	Cooling station stallation			
Services Integration (EL, CV,) No ressources						_	infrastructure 8 ices ready		





physics	LS1			physics			LS2	physics
2012	2013	2013 201		2015	2016	2017	2018	2019
No ressou	ırces Integ		GS/SE studies and procuremen	CONSTRUCT	i i statio	Installation		
	17 October 20	013 20 March		March 2015 FC	26 May 2016 Building ready	i i	t tests on magnets	
					ma	Converter Inufactured d installed	Conve perform commission ready for co	nance oned and





