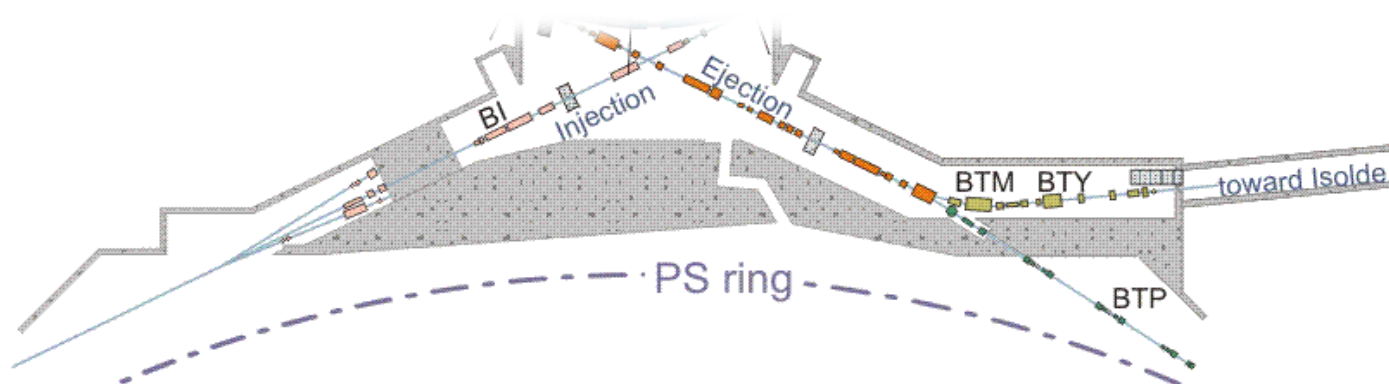


Bulding 245 schedule update



LIU Booster Meeting 13-09-2012

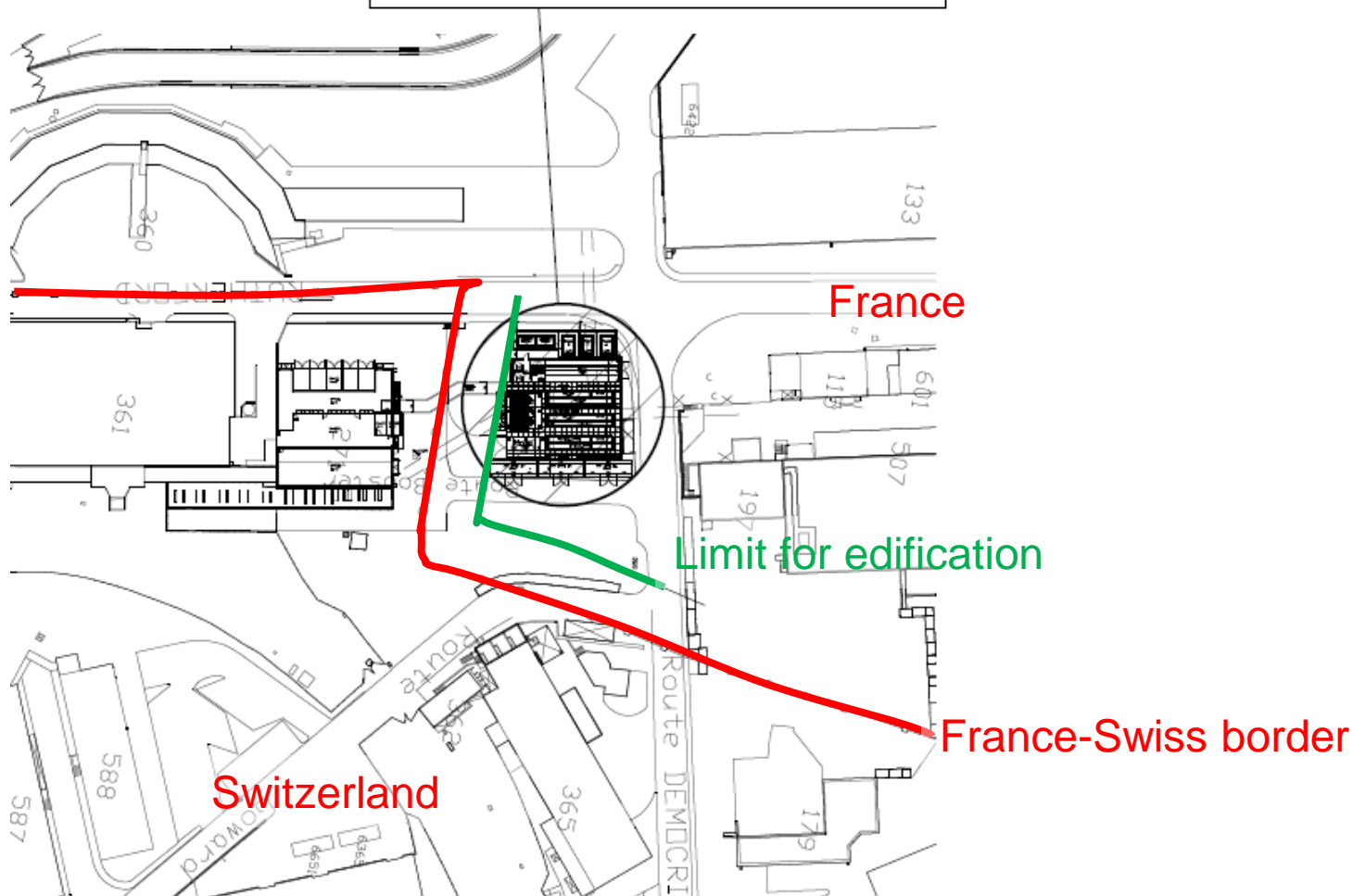
Serge Pittet, Fulvio Boattini

TE-EPC

Building 245 Position

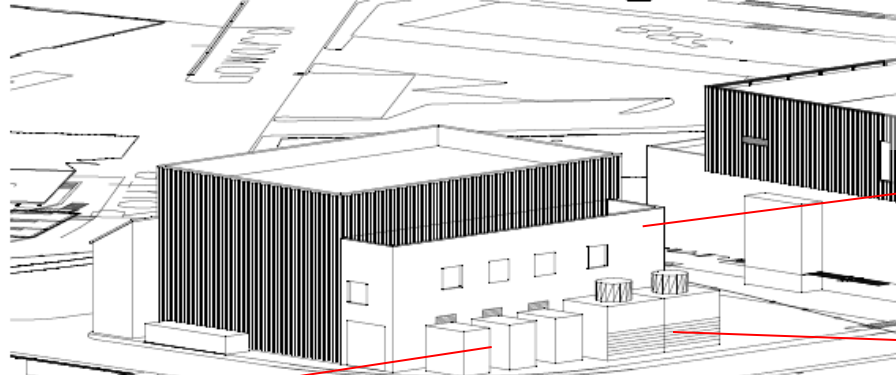
SITUATION PLAN _ 1/1000

CONSTRUCTION PROJECT



Building 245 Preliminary Design

NORTH-WEST VIEW _ 1/250

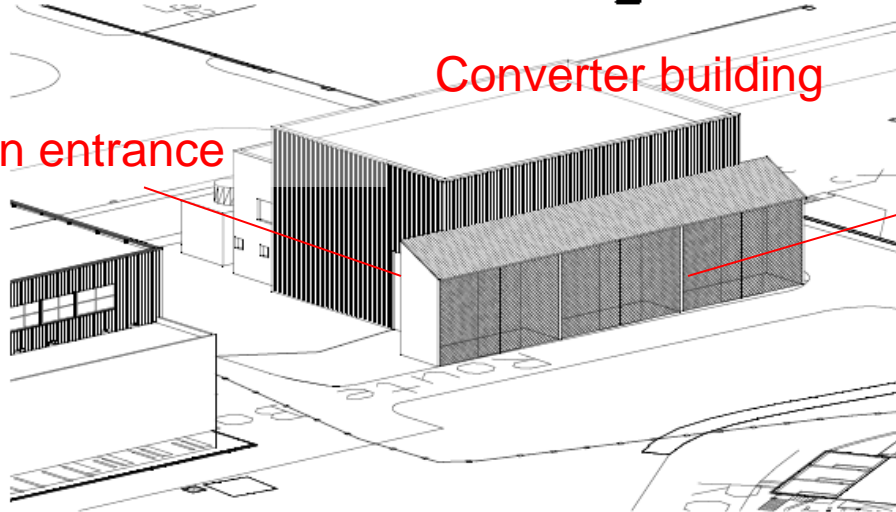


HVAC room at ground floor
Control rooms at first floor

Cooling towers

Input Transformers

SOUTH-EAST VIEW _ 1/250

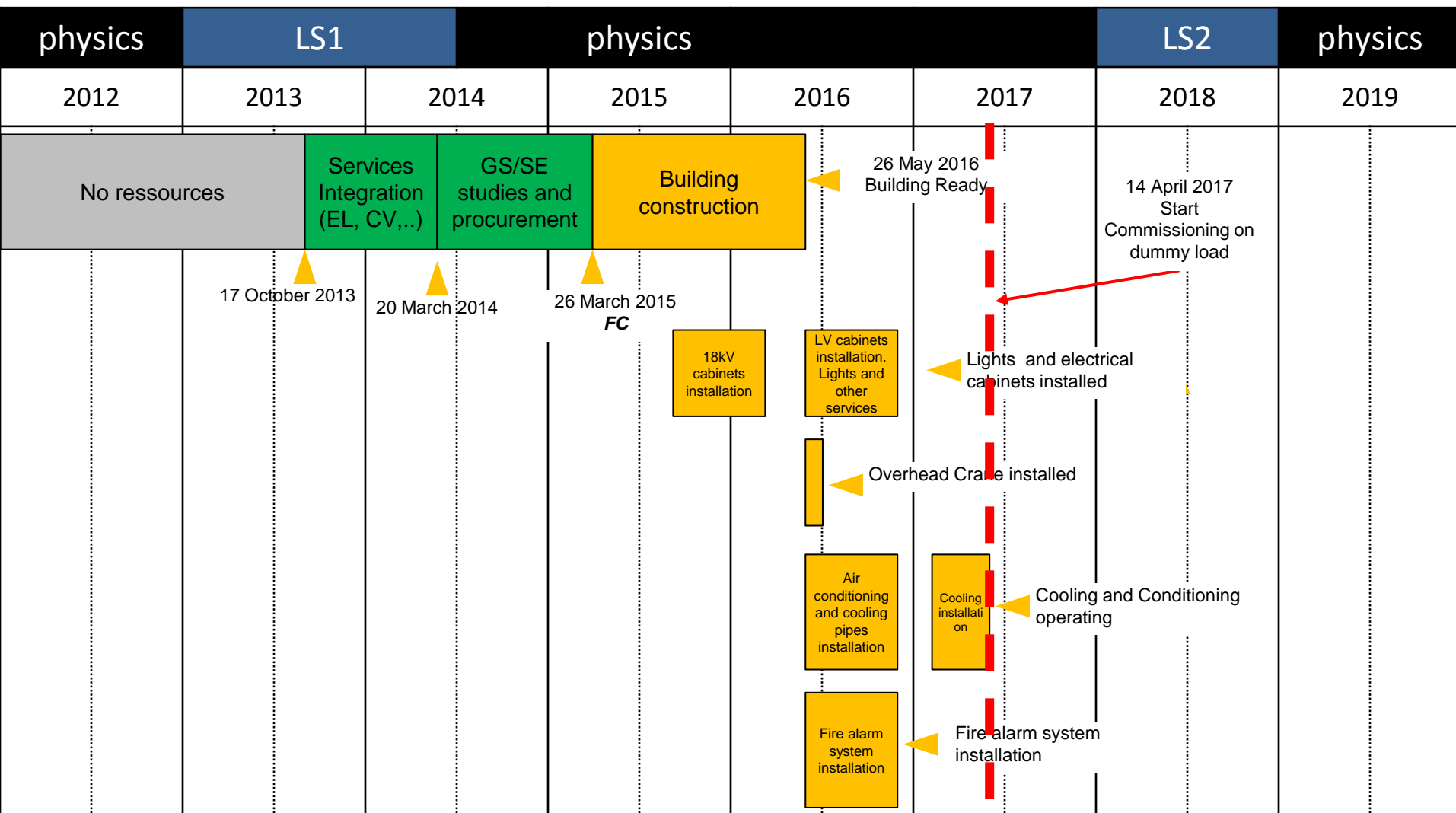


Converter building

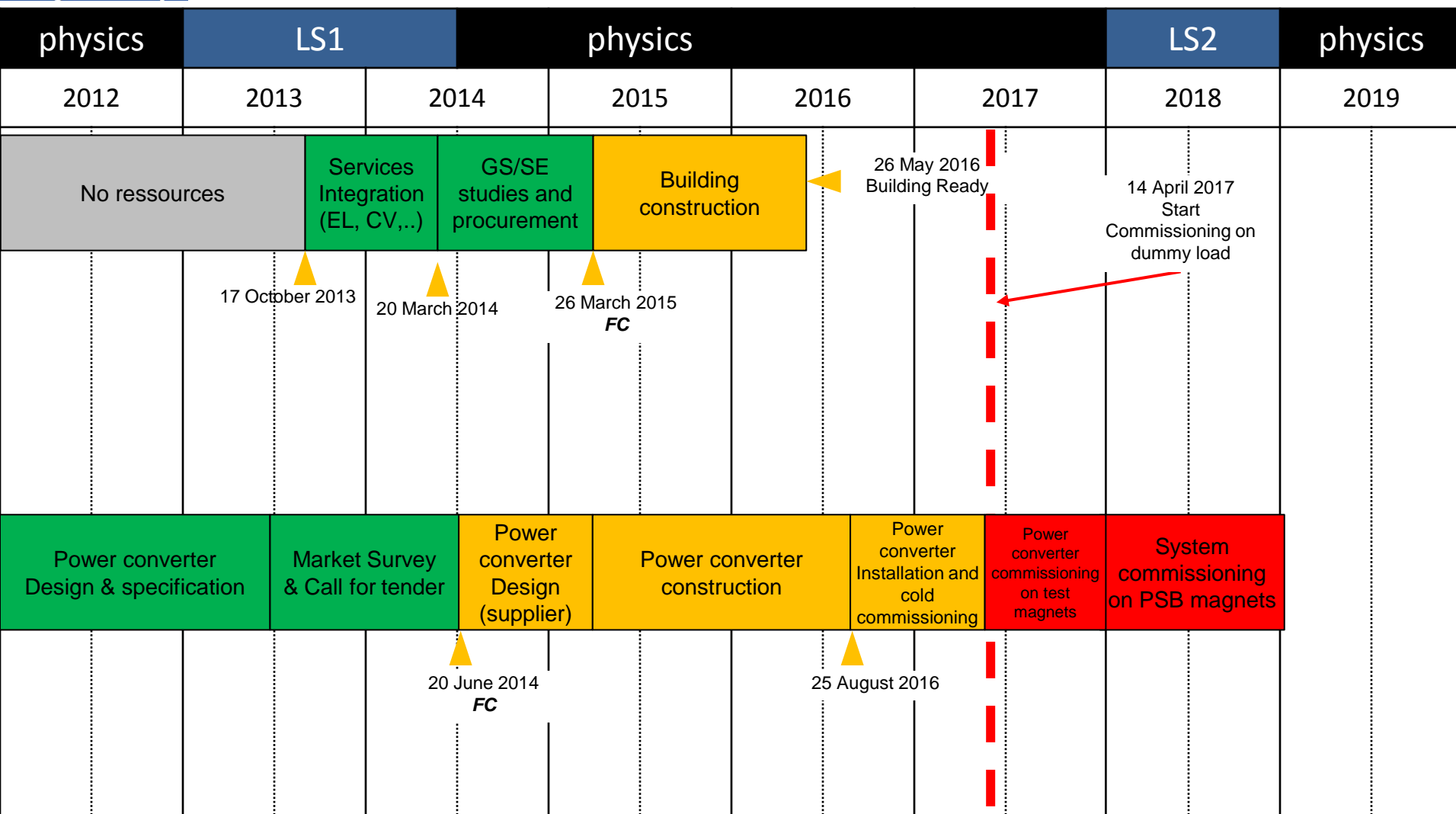
Main entrance

Storage capacitors

MPSB Time Schedule



MPSB Time Schedule



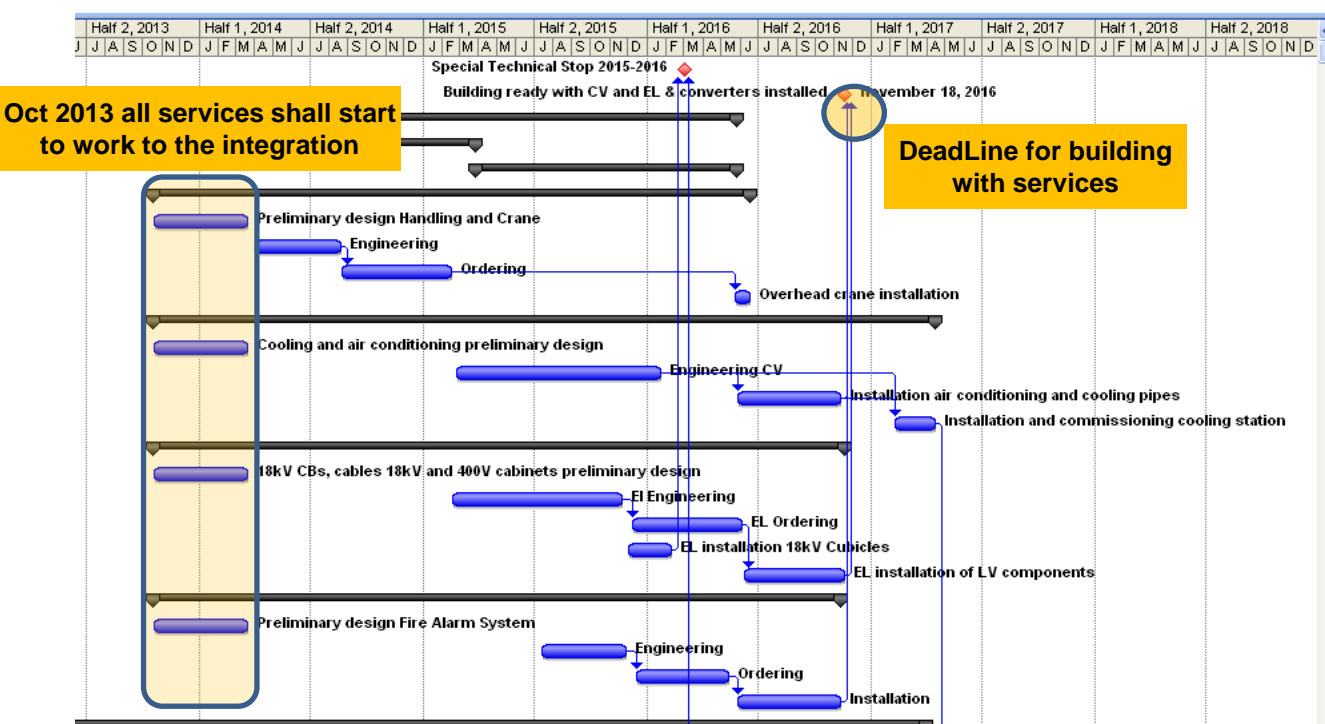
[illegible]

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



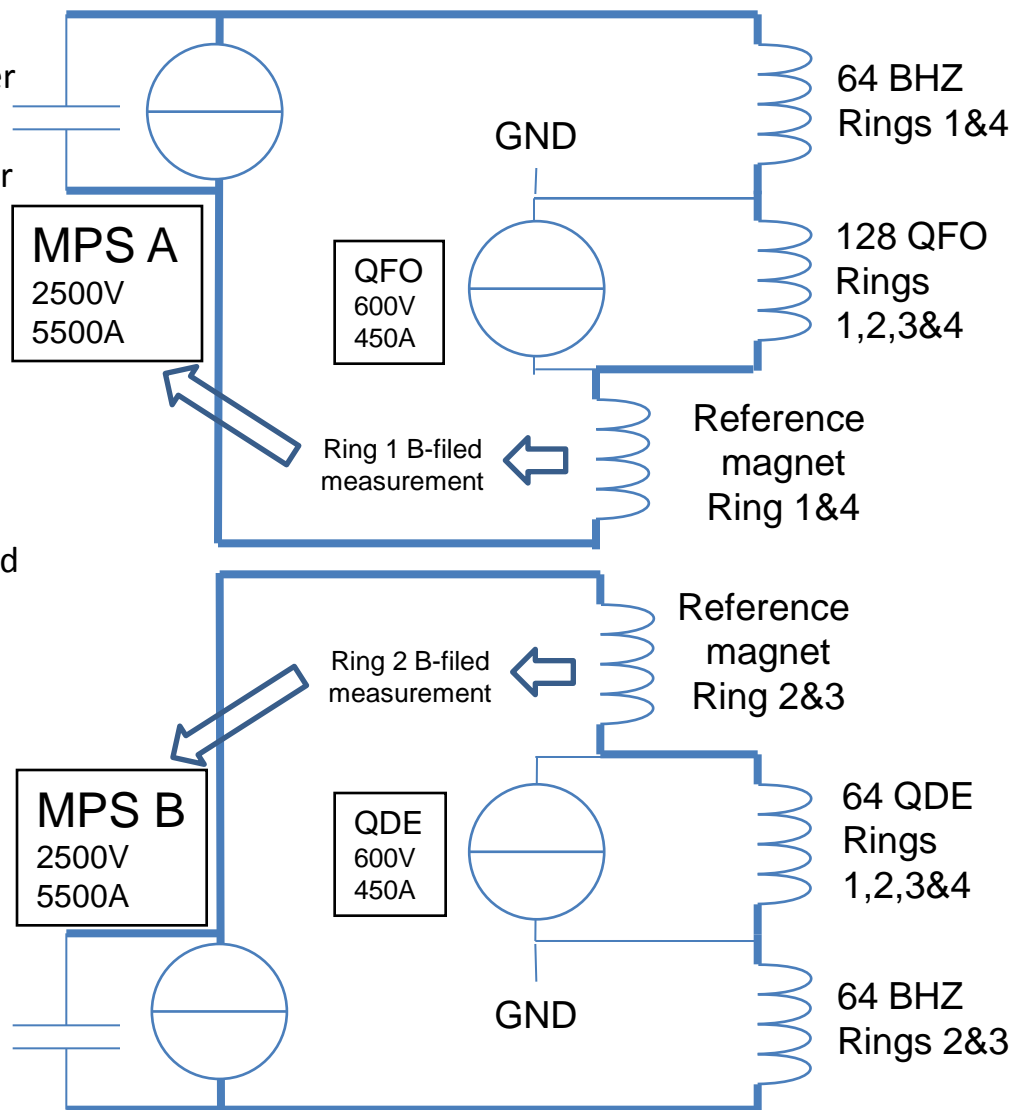
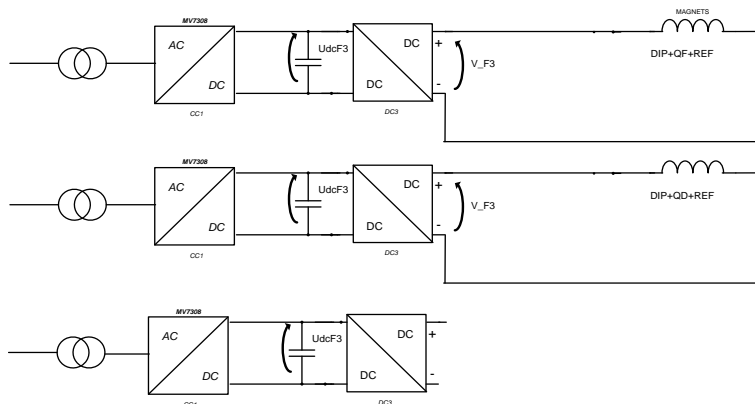
THANKS FOR THE ATTENTION

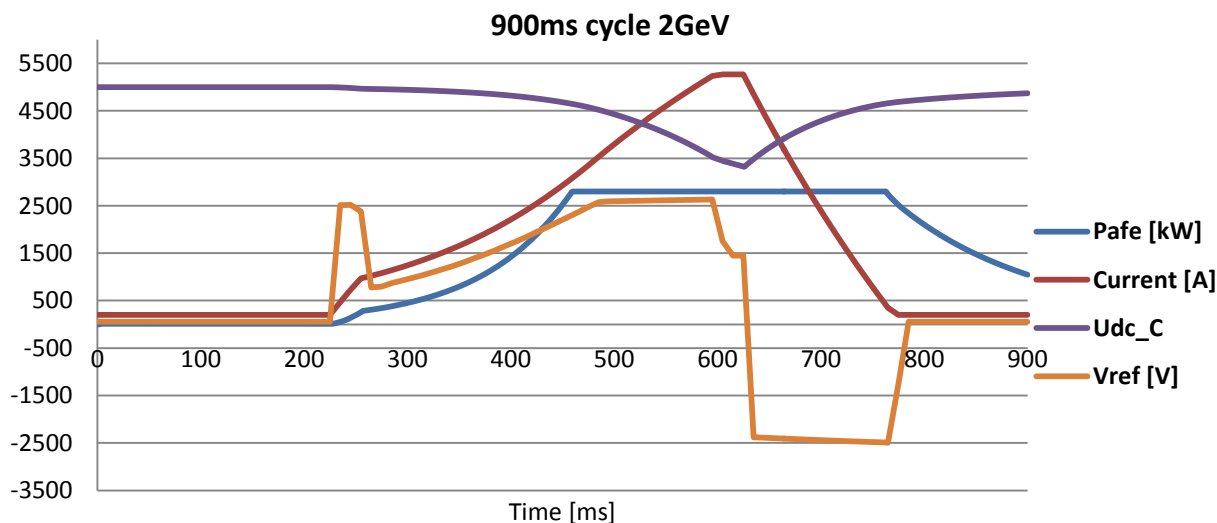
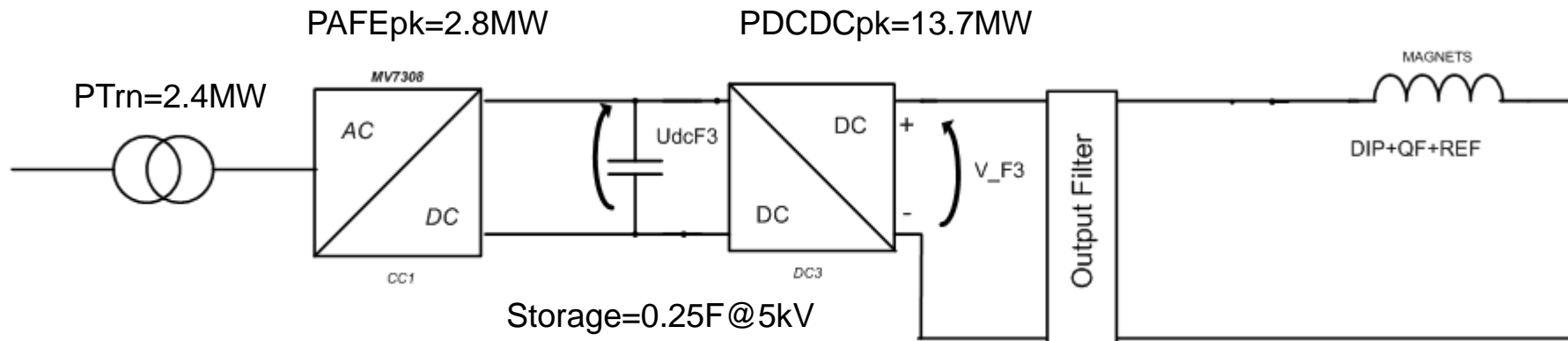
QUESTIONS?

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.

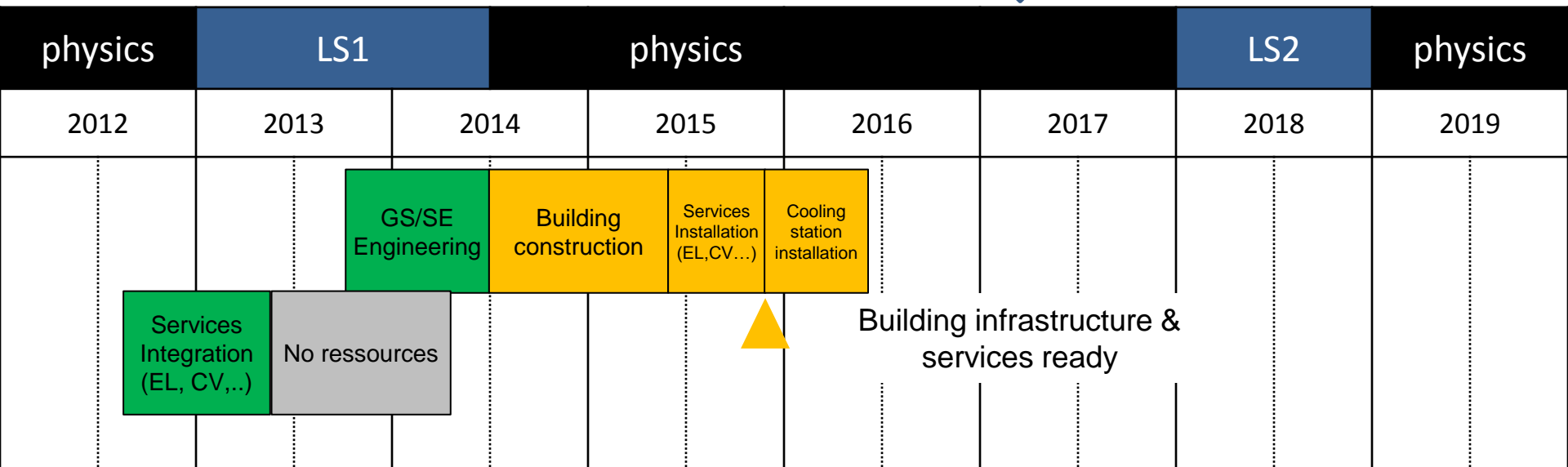




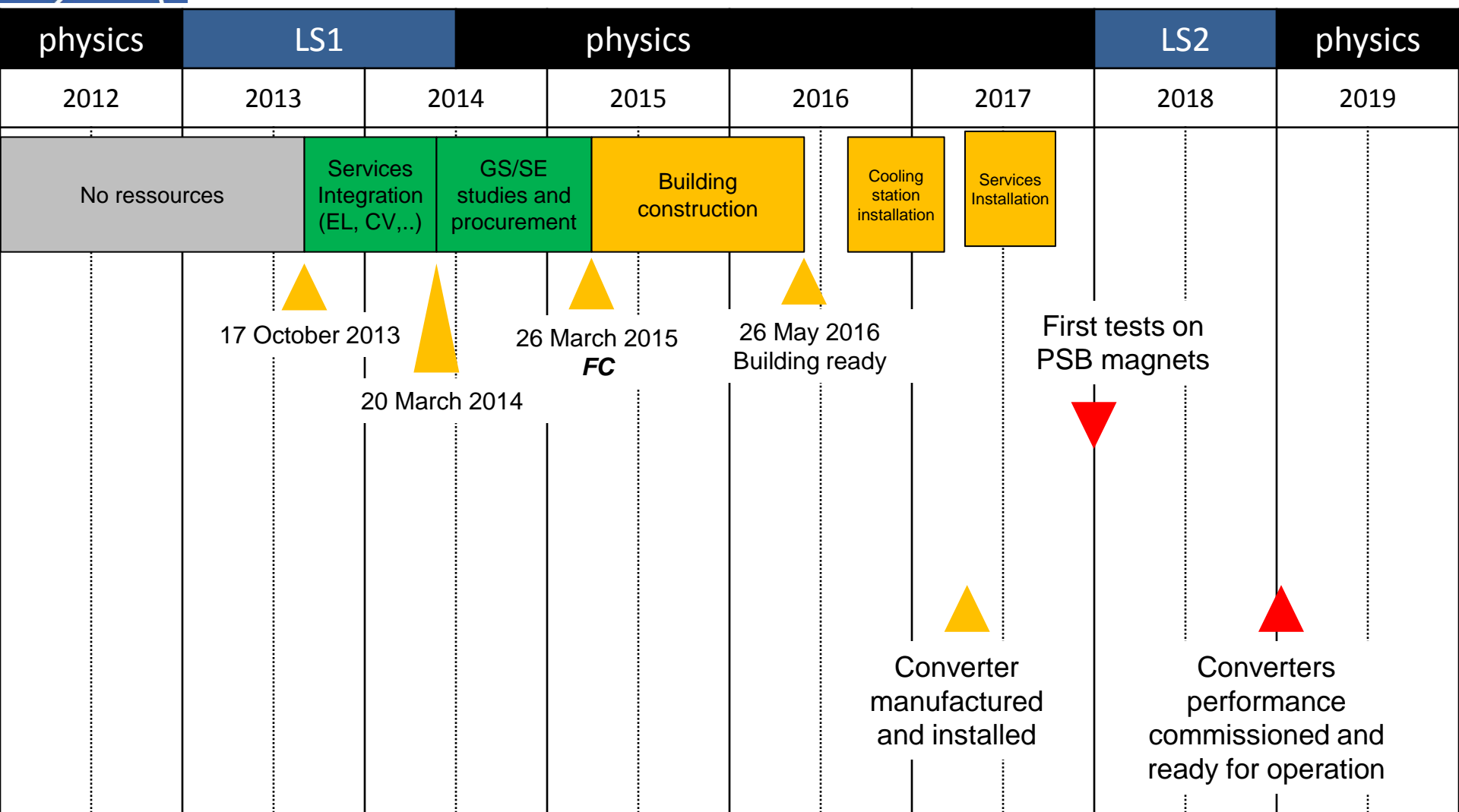
Output ripple specification
to be published soon

Trim(s?) still to be dimensioned

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



MPSB Time Schedule



MPSB Time Schedule

