POPS-B project follow-up

LIU-PSB Meeting 208  06 Feb 2018

Fulvio Boattini TE/EPC
B245 modifications status

Explosion vents

Protection walls

Supports below R-403
Power Converters status

1st of three MPC

Configuration switches

Storage Capacitors

Magnetic components

Storage Capacitors and Magnetic components installed (≈ 90 tons)

1st MPC delivered. 2nd FAT done ready for shipping.

Configuration switches installed.

Cable structure installed and cabled
Cooling and ventilation status

Water cooling system fully tested (bypass valve)

HVAC system fully tested (no load charge)
Electrical Engineer status

First EOD switchgear installed in electrical room
18 kV switchgear installed
Cable ladders installed
Cabling status

All cables outside B245 are pulled or will be before end of YETS
Activities to be completed: Civil Engineer

Modifications of B245 → 90% completed
  Installation of explosion vents
  Order of blast resistant doors (50kEU)
  Realization additional supports in false floor → February 2018

Final design under approval by ADIX

Required to install power converters
Activities to be completed: Cooling and HVAC

Cooling and air conditioning → 70% completed
Chilled water for converter room HVAC → LS2
Air conditioning and ventilation in concrete body of B245 → April-May 2018
Pipe connections to power converters and QTR DL → April-May 2018
Pipe connection to new ref Magnet → LS2
Installation of new cooling for dummy load → May 2018

Pipe connections to power converters

Dummy load cooling system
Activities to be completed: Electrical Engineer

Electrical Services → 70% completed

Installation of remaining switchgears → March 2018
Aux cables from ME25 to B245 → February 2018
18 kV cables for transformers → February 2018
→ May 2018
→ May 2018
Activities to be completed: Cabling

Cabling → 50% completed
Internal power and auxiliary cables → March-April 2018

Power cable 6 kV and 400V / 230V
Activities to be completed: Power Converters

Power Converters → 40% completed

Delivery of remaining two MPC → March 2018
Delivery of 1st transformer → May 2018
Installation of fuse structure → May 2018
Delivery of 2nd and 3rd transformers → July-August 2018
Delivery of six Inj/Extr trims → May 2018
Delivery of three QTRs → April 2019
Commissioning MPC → June-October 2018
Tests on PSB → 4th – 21st December 2018
Commissioning of QTR, Trims and total system → LS2
Global plan

See POPS-POPSB_Nov2017 to Dec 2018.mpp → EDMS 1562105
### Budget codes overview

**CB: 76805 Civil Engineering** \( \approx 88 \text{ kCHF} \) to spend (Indico 20 November 2017)

**CB: 99238** re-budgeted to 11.5 MCHF from 12.65 MCHF

**EVM profile on track**

<table>
<thead>
<tr>
<th>Year</th>
<th>Charged to Budget Code (CHF)</th>
<th>Pluri-annual Commitments (CHF)</th>
<th>Pluri-annual Open Commitments (CHF)</th>
<th>Payment Budget (CHF)</th>
<th>Pipeline (CHF)</th>
<th>Budget Usage Chart</th>
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Thank you for your attention
Questions ?