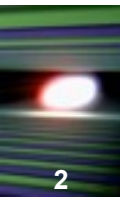




Introduction

Tobias Haas
Technical Meeting
2 Sep 2016



- S. Cunis: Vibration Situation XHEXP1
- M. Aresté: Cabling Dates
- General Status

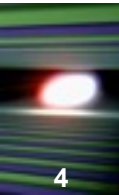
Tunnels Civil Construction



3

- Interlock doors are being installed in XTL and XS1
- The dump shafts XSDU1/2 get an additional seal and will then be filled with sand and closed.
- Cylinders from heavy concrete are being cast to close unused holes in the radiation protection walls

TGA in Southern tunnels



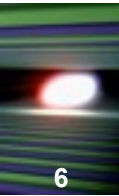
- Installations for water and electricity are still ongoing
- Connection of magnet power cables was interrupted to finish XTL
- The cooling infrastructure for the dump in XS1 is almost done. Work then continues on XSDU2/1

Machine Installations XS1



- All supports for magnets and beam pipes are installed in XS1
- The safety magnets are installed. Mechanics still needs to be connected
- Labyrinths in XS1 to XTD1/2 are installed
- Supports for the shutters of the T1/T2 beam lines are in place
- Intense work on the hanging beam lines in XTD2 and at the end of XTL
- Work on the interlocks should finish by 16 Sep
- Start of cool down now on 17 Oct.

Machine Installations XTD2



- Work can start on the T4 beam line
- Laser and camera for the SLRS system are being commissioned
- Cooling hoses need to be exchanged on the QA magnets in the undulator section due to insufficient resistance. Will be done so that it does not affect the schedule.

Machine Installations in other tunnels



7

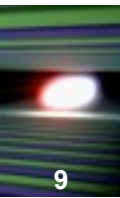
- XS3:
 - Last holes being drilled
- XTD4
 - Alignment of the 2 BV magnets end of September
 - Panel wall in undulator section is installed
- XTD10:
 - Floor coating is done
 - Racks have been connected to power
 - Component installation continues
- XTD1
 - Holders for undulator vacuum chamber installed

Machine Installation in other tunnels cont'd

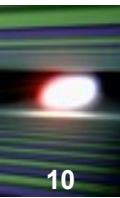


- XTD5
 - Marking for concrete stones is ongoing
- XSDU1
 - Rails for dump exchange vehicle are installed
- General
 - A lot of cabling is still to be done
 - Rack delivery for SASE2 delayed to Jan 17

Issues in the tunnels

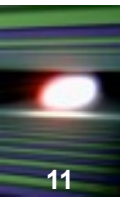


- Control System Commissioning
- Rack delivery for SASE1



- AC
 - Temperature regulation is working
 - Runs continuously in central laser room
 - Condensate goes to a container
 - Sewage pump could be temporarily put into operation
- Electricity
 - Done
- Media
 - Quality problems with the MKK air
 - Gases can be operated when requested
- Fire safety system is being commissioned

SASE1 Cabling



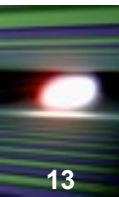
- Phase1
 - Cables have been pulled
 - Vater working on the patch boxes
 - Racks arrive next week
- Phase2
 - Meeting with Actemium this week
 - Long lead items are ordered
 - Delivery starts in week 42
 - Detailed plans by Monica

SASE1 Top Open Issues

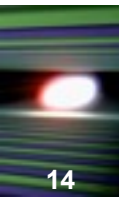
12

- XHEXP1 Sewage pump
 - Now runs temporarily
- MKK compressed air
 - No change here
- “Brandschottung” of cutouts in the rack rooms
 - Solution found
 - Will be done by company SVT as part of a larger contract in the tunnels
- Laser Interlocks
 - DESY will do the SASE1 interlocks but they will be delayed until end 2016

Power Consumption SASE1



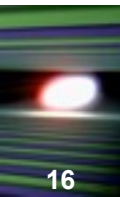
SASE1: Fire protection “Aufdopplung”



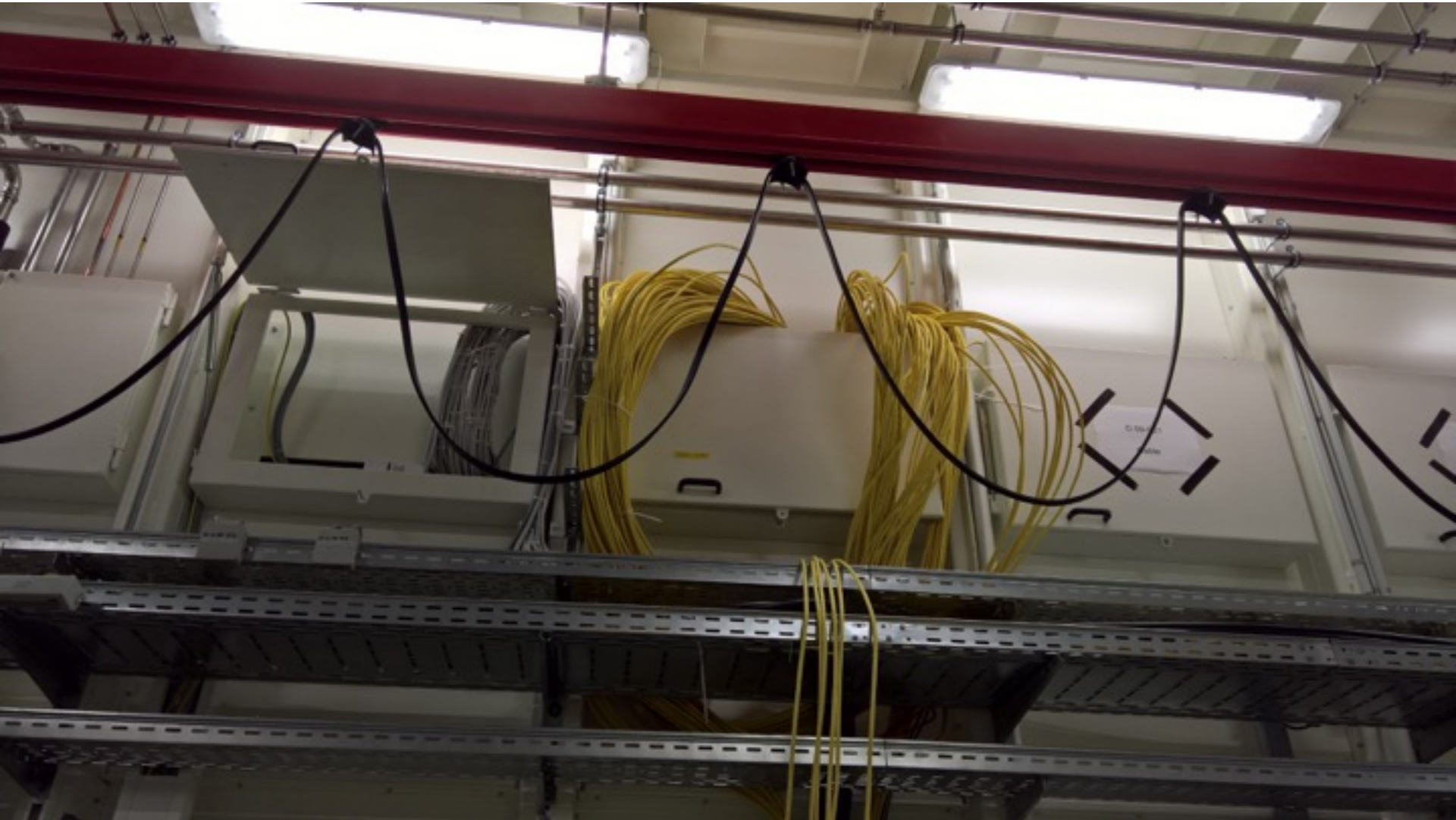
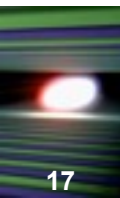
SASE1: Floor in Bio lab SPB/SFX



SASE1: Coax Cables



SASE1: Cable Capacity problems

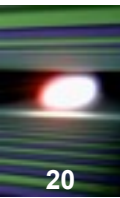


SASE1: MEA3 working on the Laser Interlock



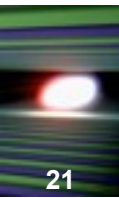
Pump crunching on sewage...





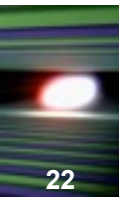
- Civil construction
 - LIEN started to install chicane doors
 - difficult to open and do not fit very well
 - Double floors in rack room done
- AC
 - Waiting for updated schedule from Caverion
 - PI will then update the TGA schedule
- Electrical
 - Detailed discussion placement of outlets and switches last week
 - No installation activity this week

SASE3 Status



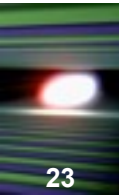
- Media
 - Dräger starts again next week
- No activities on Sanitary and Fire Safety yet

SASE3 Status



- Electronics and Cabling
 - Phase1 Tender published this week
 - Phase 2
 - Eplanners started to work on cable planning SASE3

SASE3 Top Open Issues



- Caverion Time Schedule
- Phase1 Cabling is not tendered yet
 - Went out this week
- Eplanning both for modules as well as for cable routing has not started
 - Cable planning started
- Laser Interlocks
 - SRP identified an external company
 - ➔ PR and MB proposal in preparation

SASE3: Missing doors



SASE3: Chicanes with doors



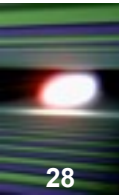
SASE3: Double Floor in SQS Rack Room



SASE3: SCS Pump Room

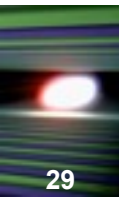


SASE2 Status



- Civil Construction
 - Pontax installed chicanes
 - LIEN continued with TGA Support structure
 - Big AC platform
 - Painting contract awarded
- TGA
 - Kickoff meetings yesterday

SASE2 Top Open Issues



- Phase1 Cabling draft planning waiting for comments from our side for two months
 - Comments promised for 15 Sep
- Laser Interlocks
 - Will wait for developments in SASE3

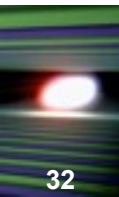
SASE2: Chicanes in MID Hutch



SASE2: HED Rack Room with Support

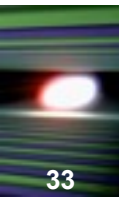


Infrastructure E0



- Meetings with user groups are ongoing

Next Meetings



- Next Photon Tunnel Coordination Meeting
 - Today after TechMeet in XTOB
 - Vacuum Controls Task Force
 - Situation with SASE1 Racks
 - Finishing XTD2/10

- Next XHEXP1 hall coordination meeting
 - Friday, 9 Sep 8:30 XHQ/E1.173