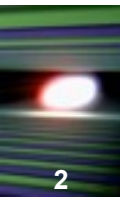


Introduction

Tobias Haas
Technical Meeting
20 Jan 2017



- Status Accelerator
- Activities in XTDs
- XHEXP1 status report



- LINAC is fully cooled down
 - Some work remains on the so called cold compressors
- Beam injected into XTL up to B1D last weekend
 - 98% Transmission is already achieved
- In general diagnostics are working very well
- Two TDS (measure longitudinal properties of beam) were found to be mounted incorrectly
 - One girder removed on Tuesday for repair
 - Will go back in within 1 week
- Cold Commissioning of RF system and cavities is ongoing

Beam Operation up to B1D

4

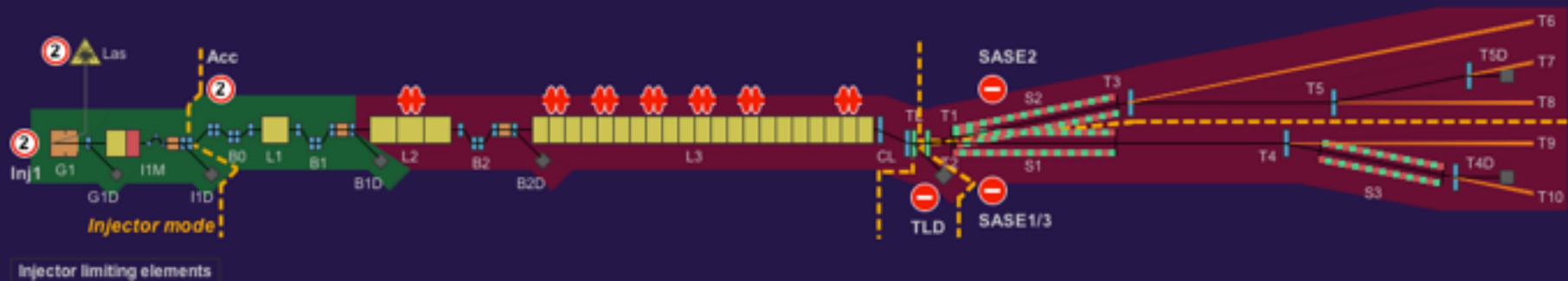
/svn/user/jaegj/ups/XFEL_MPS_overview_main_v5.xml XFEL DIAG/MPS/

Send to eLog

Beam Veto

Operation Modes / Laser & Shutter Inhibits / Beam Modes / Section Availability

Also show "green" release signs: ☐



Ctrl Inj1 L1 L2 L3 SA1/3 SA2

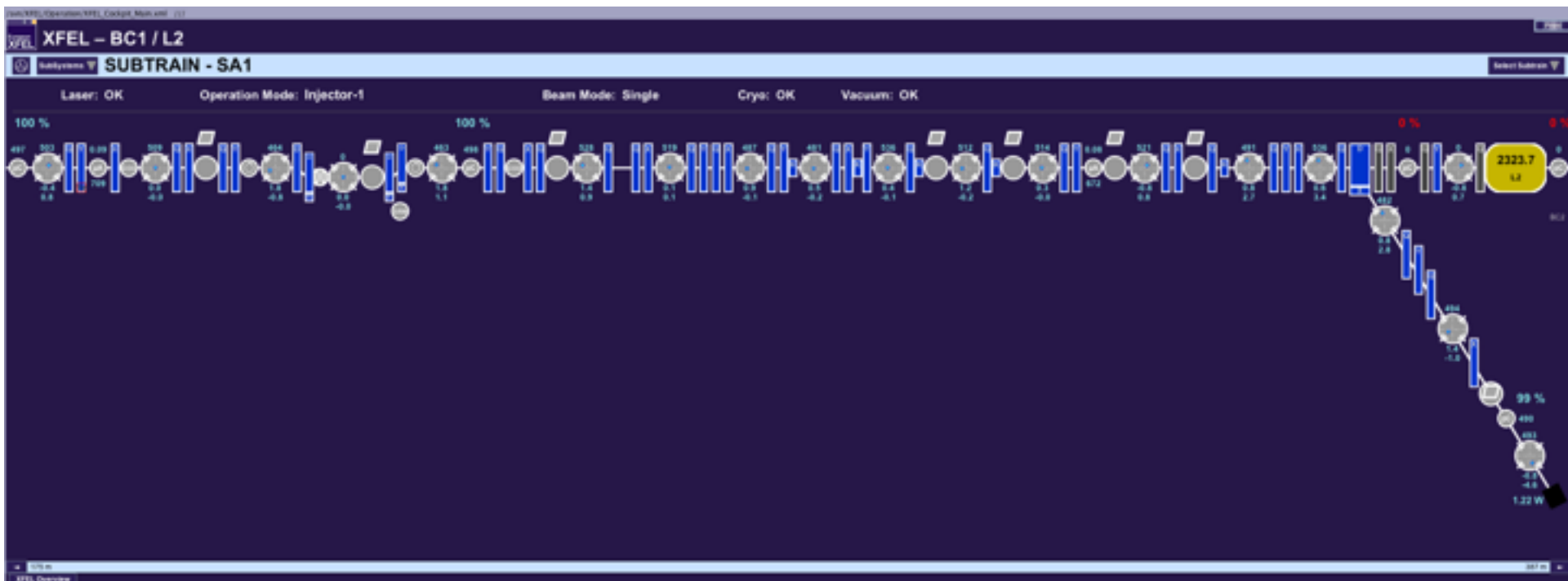
Sectional Assessment

Injector G1-I1D Locations

Health:	Server:	Info:	Position:	Z [m]:	Laser-inhibits:	RF-inhibit:	Beam Mode:
◆	DI30I1.0	Screens, BLM, TPS	XTIN_I1.S1_R06.1	29.0			
◆	DI30I1.1	Vacuum	XTIN_I1.S1_R06.1	29.0			
◆	DI55I1.0	BLM, OTR, TPS	XTIN_I1.S1_R32.1	55.0			
◆	DI55I1.1	BPM, BHM, OTR, TPS	XTIN_I1.S1_R32.1	55.0			Ⓜ
◆	LLGUN1	LLRF Inj1 Gun	XTIN_I1.S1_R06.5	33.0			
◆	LLAH1I1	LLRF Inj1 AH1	XTIN_I1.S1_R06.8	35.0			
◆	LLGUN1KLM	LLRF Inj1 Gun KLM	XTIN_I1.S1_R06.9	35.0			
◆	LLA1KLM	LLRF Inj1 A1 KLM	XTIN_I1.S1_R06.9	35.0			

Transmission to B1D

5

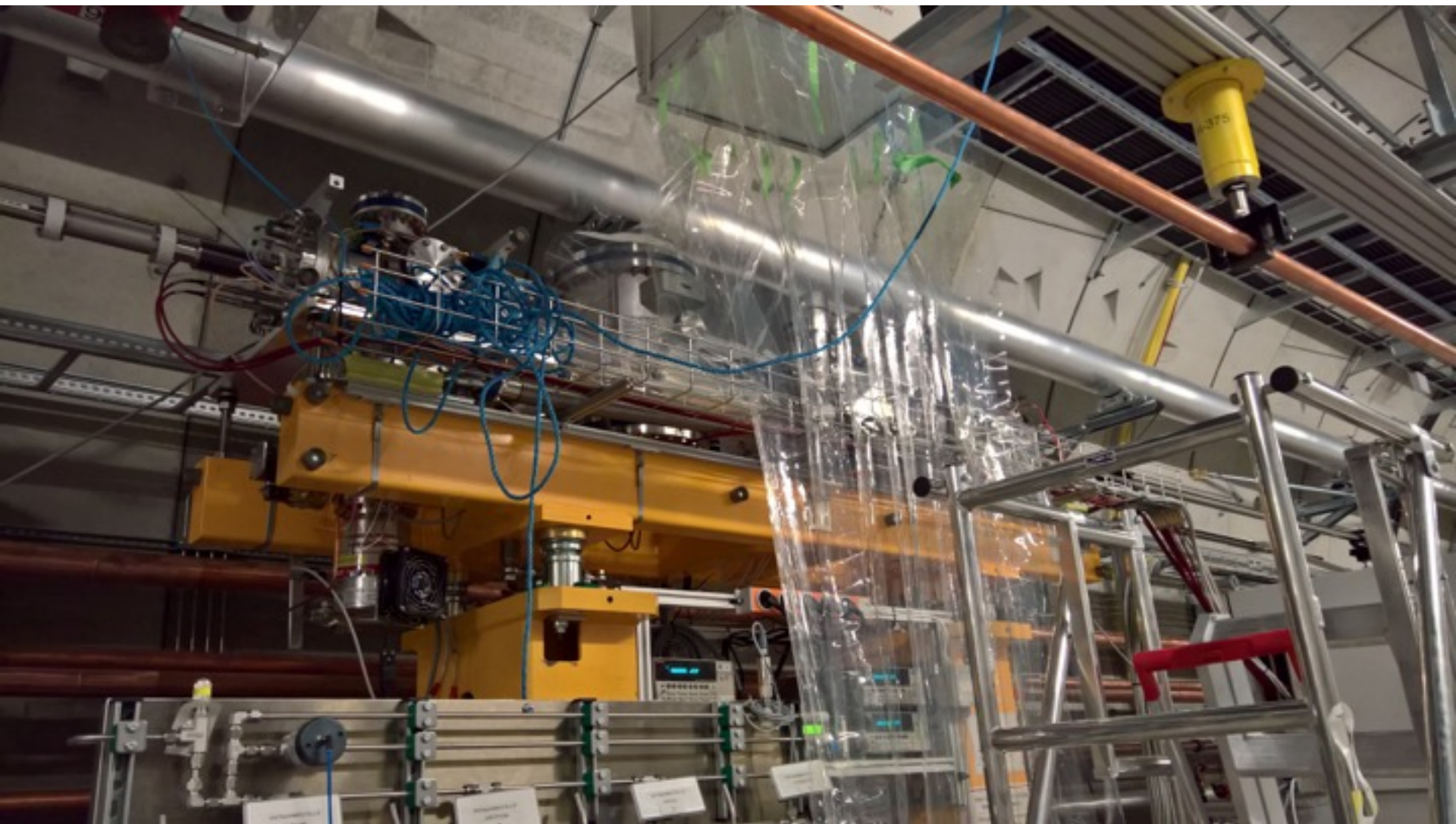


Activities in XTDs

- Photon Vacuum fully closed in XTD2 all the way through XS3
 - XGM connected
 - CRLs leak-tight
- Intense activity on Beckhoff and software integration
 - Follow-up in SASE1 readiness meeting at 0930



XGM vacuum connected in XTD2



PLC firmware experts working on MCP in XTD2



Vacuum being pumped on HIREX in XTD9



CRLs for FXE at the end of XTD9



Radiation chicanes closed



Experiment Hall



- Commissioning of AC system in SASE1 ongoing
 - Some technical hiccups (power/water failures)
- Phase 2 Cabling of FXE 98% done
- Phase 2 Cabling of SPB optics makes good progress
- Smoke extraction test on 27 Jan
 - No access to experiment hall on this day
- Start of AC installations in SASE3 on 13 Feb
 - Installation of big AC boxes start early March
- Phase 1 Cabling time schedule received from Vater
 - Delivery of racks foreseen in early May
- Final phase of FXE installation by JJ Xray ongoing

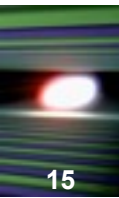
Installation in FXE



Grouting in SQS and SCS



Next Meetings



- SASE1 Readiness by invitation
 - Today 09:30 after TechMeet in this room
- Next XHEXP1 hall coordination meeting
 - Friday, 27 Jan 8:30