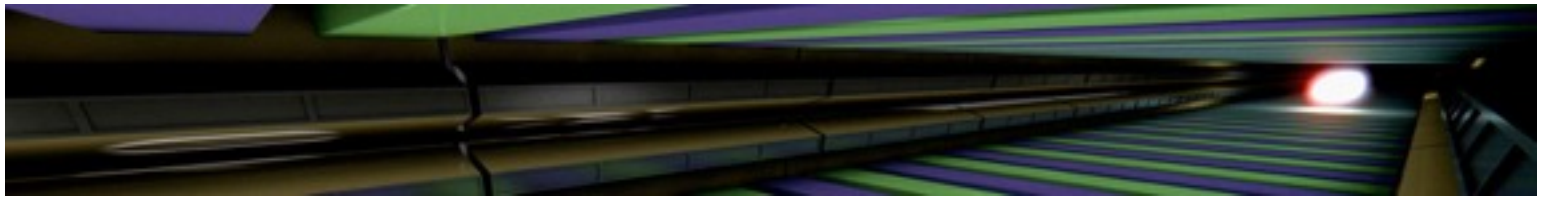
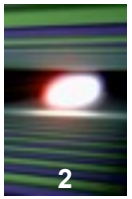


Introduction

Tobias Haas

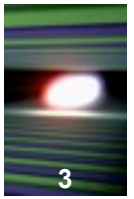
12 May 2017

Topics



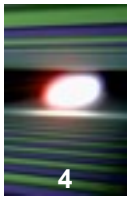
- On-Call Duty Organisation
- Time Schedule for finishing SASE3/XTD10
- Status tunnels and hall

On-Call Organisation



- An effective and economical On-Call Organisation is needed
  - Commissioning of tunnels and instruments needs to be adequately supported
    - ➔ Response time should be short in case of immediate need
    - ➔ Clear instructions for shift crews must be available
  - Sensitive equipment must be protected
    - ➔ Intervention might be required on weekends or holiday
  - Key infrastructure groups should also be protected from a major resource drain

Basics in the OCD Works Agreement



- Regular service time on working days from 08:00 until 19:00
- OCD on working days from 19:00 until 08:00 next day
- OCD on Saturdays, Sundays and public holidays from 08:00 until 08:00 next day
- If a colleague with OCD had no continuous rest period of 11 hours during the time from 08h00 until 08h00 of the following day, he/she must have this rest period after the last OCD assignment during this period
  - e. g. if a person is called to work from 3 - 4 AM, the person should not work until 15:00 again
  - This is a problem for some groups with few experts that are needed also for regular work during the day

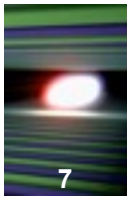
Proposal

- Result of a discussion between H. Sinn, J, Grünert, P. Gessler and THa:
  - The first point of contact from BKR will always be made via the CAS person on call
    - ➔ this was already foreseen previously
  - CAS expert on call will analyse the issue and
    - ➔ solve it if it is a software problem
    - ➔ forward it to the AE expert, ITDM, VAC, or Hardware experts on call if it appears to be an AE/ITDM/Hardware issue
  - Photon commissioning team will try to avoid calling the OCD between 2300 and 0800

Time Schedule SASE3/XTD10

- XTD10 is now closed
  - except for maintenance periods
- A lot of work remains
  - Some mechanical work
  - Alignment of components
  - A lot of cabling
  - All of technical commissioning
- PSPO would like to generate a detailed schedule
  - Reasonable estimate of time required to finish
    - ➔ Possibly ask for an appropriate contiguous period
  - Allow planning for a dedicated finishing effort

Start from Sabine's Installation List

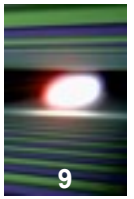


	F	G	H	J	K	L	N	O	P	Q	R	S	T	U	AB	AK
1	criterion	criterion group / WP	DEVICE_class	x		calendar week	on position (Component Responsible)	aligned (MEA2)	cooling water (MKK 2)	gas (CR)	pressurized air (CR)	network (ITDM)	standalone test (CR)	local Beckhoff test (AE)	remote test (CAS)	
2		[]	[]	[m]		01										?
17	pb-device	73	SRA (DN100/DN100)	3114,6913			g									
19	pb-device	73	Collimator 15mm (DN40/DN40)	3118,5203			g									
26	pb-device	73	Gas attenuator DN63 start (length without reducers)	3149,2892			tbpositioned									
35	pb-device	73	Gas attenuator DN63 end	3186,0288			tbpositioned									
43	pb-device	73	Alignment laser DN63	3195,9928			pipe	na					na		na	
45	pb-device	73	Collimator 20mm (DN63/63)	3197,0660			g									
47	pb-device	73	1st offset mirror (M1)	3200,3156			g									
50	pb-device	73	PBLM+ (reducer+bellows DN160 incl.)	3201,9152			g									
52	pb-device	73	2nd offset mirror (M2) x=+76mm;	3203,2149			g									
56	pb-device	73	Absorber (DN200/DN200) x=+75mm	3206,7190			-04									
64	pb-device	73	Collimator 85x20mm (DN160/160) x=+75mm	3213,6721			-08									
69	pb-device	73	Vertical slit (DN160/DN160) bellow DN160 ds. x=+75mm	3218,0599			00									
73	pb-device	73	soft X-ray monochromator	3219,7105			g									
78	pb-device	73	defraction order dump 1 (DN160/160) x=+73mm;y=+25mm	3222,3098			g									
80	pb-device	73	defraction order dump 2 (DN160/160) x=+73mm;y=+22mm	3224,3093			g									
82	pb-device	73	defraction order dump 3 (DN160/160) x=+73mm;y=+15mm	3228,3082			g									
88	pb-device	73	defraction order dump 4 (DN160/160) x=+73mm;y=+5mm	3236,3061			g									
101	pb-device	73	defraction order dump 5 (DN160/160) x=+73mm;y=+5mm	3241,3048			g									
109	pb-device	73	PBLM x=+60mm;y=+5mm (DN100/100) RV/VV incl.	3255,2731			g									
110	pb-device	73	distribution mirror SCS (M5) x=+60mm;y=+5mm	3258,3003			g									
113	pb-device	73	distribution mirror SQS2 (M6) ** y=+5mm	3263,7988			-	-					-	-	-	
114	vac-f-valve	73	Fast Valve x=+45mm;y=+5mm	3269,0422			g	na								
115	pb-device	73	Horizontal slit x=+50,7mm;y=+5mm	3293,2910			-08									
120	vac-f-valve	73	Fast Valve x=+45mm;y=+5mm	3294,2469			g	na								
126	pb-device	73	collimator 38x31mm; x=+51mm;y=+3,2mm (DN100/100)	3318,5813			g									
128	pb-device	73	collimator 38x31mm; x=+51mm;y=3,2mm (DN100/100)	3318,5813			g									
129	pb-device	73	vertical exit slits x=+51mm;y=+3,2mm	3319,2841		com-	g									
131	pb-device	73	vertical exit slits x=+51mm;y=+3,2mm	3319,2841		com-	g									
134	pb-device	73	PBLM (DN63/DN63) x=+47mm;y=0	3326,5845			g									
137	pb-device	73	PBLM (DN63/DN63) x=+47mm;y=0	3332,4830			g									
138	pb-device	74	Transmissive imager (OTR-C+filter chamb.)	3098,2257												
139	pb-device	74	K-Monochromator system (DN100/DN40)	3117,0000			g									

Schedule for SASE3/XTD10

- Start from Sabine's Tunnel list
- Fine tune the workflow
- Assign group and personal names to all components
- Sort list by group:
  - Individual interviews with component responsible
    - ➔ Vacuum (M. Dommach, J. Eidam, R. Villanueva)
    - ➔ Diagnostics (J. Grünert, A. Koch)
    - ➔ Optics (H. Sinn)
  - Identify current status, missing steps and estimates for each step
  - Identify dependencies
  - Come up with a minimum required time

Accelerator Status - Activities Last Week



- Beam-based alignment started in order to have better conditions for lasing
- There was a longer access this week
  - Fix a vacuum leak in the TLD dump
  - Continue installation of SASE3
- Interlocks in XTD2/4/10 were reset yesterday
- Beam operation started for photon commissioning today
  - Photon Commissioning team is on shift now
- A special effort was made by AE to get MCP integrated
  - Tool for SASE search
- We expect to close XTD9 some time next week
  - Depends on progress with photon commissioning

Longer term plans according to W. Decking

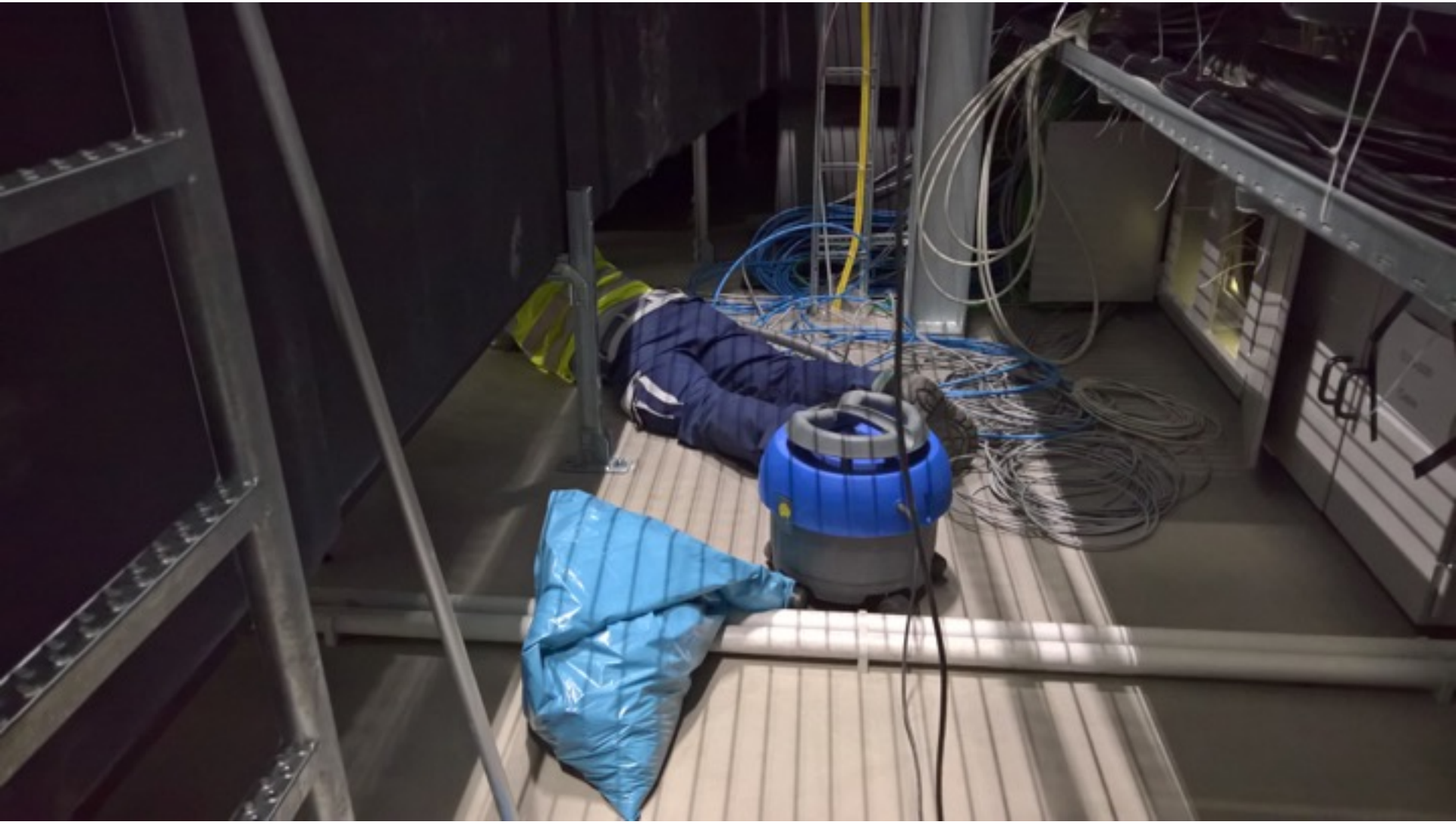
- Next maintenance days:
  - 30.05
  - 19.06-28.06
  - 25.07
  - 14.08-20.08 (tentative)
  - 03.10-22.10

SASE1

- All TGA work is done and handed over
  - Big cleaning effort on all horizontal surfaces including under air ducts etc…
- Phase II Cabling is still ongoing in SPB/ Instruments
- WP75 started to wire the AGIPD power cables
- SPB finishing tests of the tunnel components
  - CRL, Attenuator, Monitor and Pulse Picker
- FXE continues testing in the instrument hutch

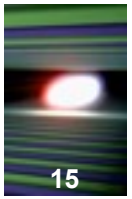
Phase II Cabling SPB/SFX

SASE1: Cleaning on top of SPB/SFX



SASE1: Cabling for AGIPD by WP75

SASE3



- We received a significantly reduced offer by Caverion (and ENGIE for SASE2) for modifications to AC curtains and plenums
- Cable pulling for main supplies and individual supplies is in full swing
- SCS Sample chamber arrived together with the big HED chamber

SASE3: Main power cables being pulled

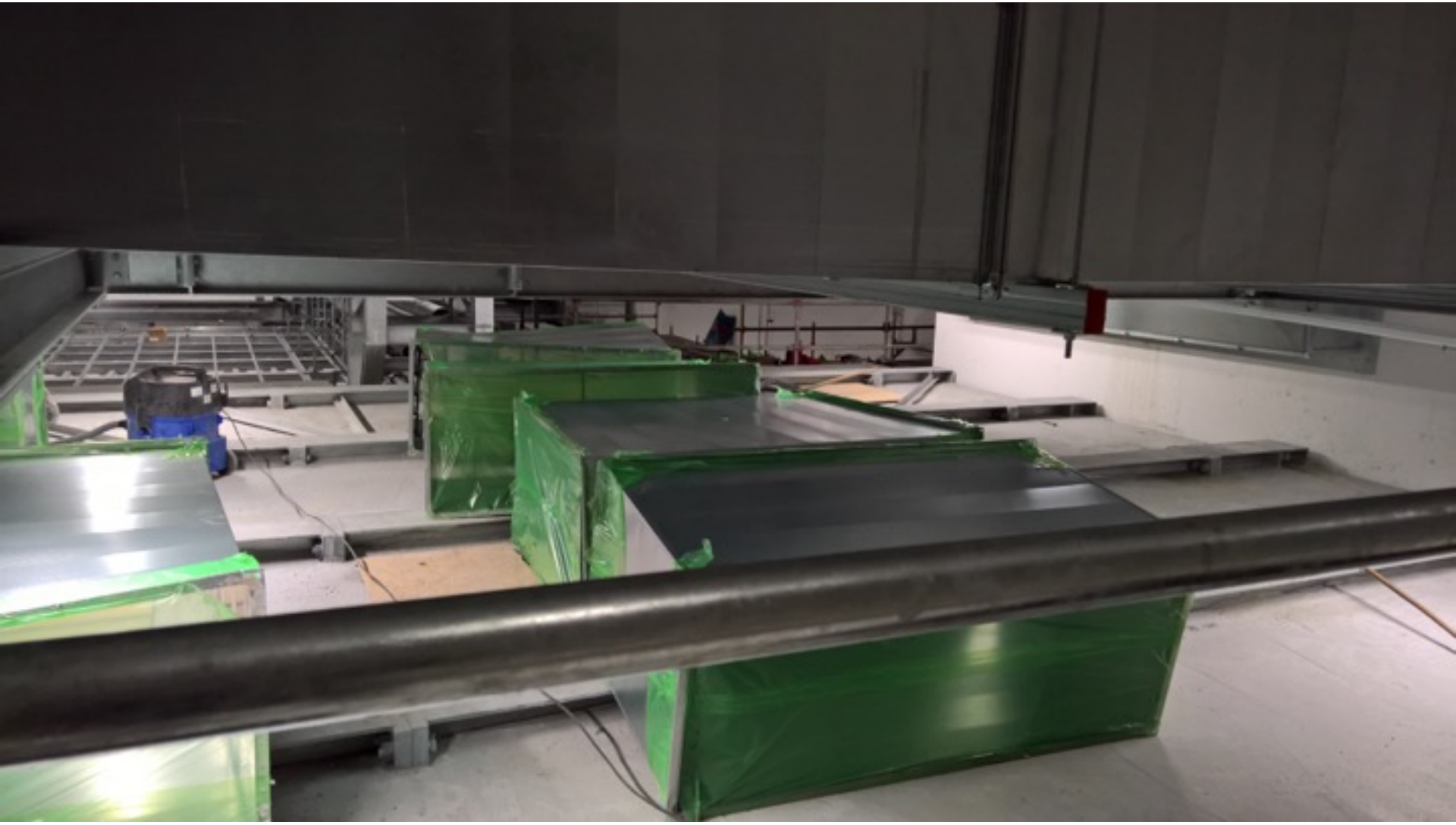
SASE3: Pulling of Electricity Cables

SASE3: SCS Sample Chamber

SASE2

- Big cost reduction for AC curtains and plenums by ENGIE
- Ceiling of A.23 (High Power Laser) was cast
- Chicanes in HED were closed with lead bricks
- The big HED sample chamber arrived and is being prepared for installation

SASE: Ceiling of A.23



SASE: Unloading HED chamber

SASE2: HED chamber

European XFEL

SASE2: HED chamber being opened

Next meetings

- SASE1 Readiness (Focus on Instruments, Laser, Detectors)
  - 09:00 here
- SASE1 Readiness Dispatch
  - Mo 09:00 @ DESY BKR
    - ➔ Van leaves XFEL @ 0830
  - Wed 09:30 @ Mockup Control Room in XHQ
  - Fr 09:00
- XHEXP1 Coordination
  - Fr 19 May 08:30
- No TC/S1R Meetings on 26 May
  - Ascension day on Thursday