

**Number**

#004

**Date**

25 September 2017

**Time & place**

13:00 – 14:00; DESY, Bldg 24, R, 242

**Participants**

 R. Kammering(RK)  
 H. Weise (HW)  
 R. Wichmann (RW)  
 W. Decking (WD)  
 T. Tschentscher (TT)  
 T. Limberg (TL)  
 M. Scholz (MS)

**Distribution**

Email list OB

**Agenda**

- 1) Minutes and action items
- 2) Last week
- 3) Next week
- 4) Improvement activities
- 5) Assessment of operational risks, adjustments of operation schedule, etc.
  - AD activities after Oct shutdown
- 6) AoB
  - invitation to this meeting
  - common workspace for protocols
  - MAC program
  - distribution list FEL seminar
  - R&D funds 2017
  - Rules of Procedure OB

### 1. Minutes of last meeting and action items

The minutes from the last meeting was accepted without any changes by the participants of this meeting.

Follow up	
04.1	Clarify general safety responsibilities for tunnels and shaft buildings. Approval necessary? TT to ask European XFEL SRP and mgmt..

### 2. Last Week

Summary of last week accelerator operation:

- a) Wed morning damaged e-beam transport. Vacuum fault was finally reason to stop acc. Restart with 1-bunch. Beam back on Friday. Could switch on 30-bunch late Friday. Following smooth operation over full weekend.
- b) X-ray beam position after recovery fully different. No correlation on acc. side. Pulse energy too low for saturation and 0.5 nC bunch charge. Beam pointing over weekend was fairly good. On x-ray side limitations with on-line diagnostics allowing to monitor beam properties parallel to experiment.
- c) Kicker to XTL dump functional again. Timing to be set.
- d) discussed follow-up of beam fault last week. ACC modified access processes for ZZ (assessment of risks by RC) and break of interlock (free measure by D3).

eelog entry:

### 3. Next Week

No compensation for experiments. No access.

Use Tuesday for studies. Setup newly on Wed to recover pulse energy (injector, compressor, etc.). Will see how this relates to beam position.

Thursday – Monday User program

- FXE day shifts (local contact W. Gawelda); SPB/SFX night shifts (local contact is M. Sikorski)

Use of Oct 03 to studies:

- IBFB with PSI colleagues (4 hrs in the morning)
- Focal broadening (afternoon and later)

#### 4. Improvement activities

#### 5. Assessment of operational risks, adjustments of operation

a) Activities for AD weeks after Oct shutdown.

- Matching → reduction of beam losses in U section
- BBA in SASE1 (will be add. minor effort in SASE3)
- FEL performance (SASE1): gain curves, focal spot characterization. This should have a functioning MCP (and possibly K-Mono) at SASE1 and the DOOCS-Karabo interface workable in both directions.

Follow up	
04.2	Clarify if change of priority from SASE3 lasing to SASE1 FEL characterization is appropriate and if it will be possible to reach requirements (MCP, DOOCS-Karabo interface)

#### 6. AoB

- Invitation to this meeting – yes, but if no distributed meeting may take place nonetheless
- Common place for protocols – Admin. Board is looking into general solution for all boards
- MAC agenda was discussed and a DRAFT will be circulated
- R&D funds 2017 – discussed tentative list; RW will write up and distribute
- Rules of Procedure – WD to respond to latest draft.
- mailing list for FEL seminar – TT to check on PS side

#### Follow-up

Follow up	
03.01	Strong pointing/source point jitter is observed. Monitors have to be added to accelerator controls for quantitative analysis, correlations and hunt for remedies.
03.02	Check if SSB responsibilities were clear during FXE beam shutter switch exchange on Sunday
03.03	Check status of MCPs
03.04	Monitor progress on SASE3 photon diagnostics and adjust development schedule accordingly