



Operation Board Meeting

MINUTES

Number

#005

Participants

D. Nölle (DN)
 H. Weise (HW)
 R. Wichmann (RW)
 W. Decking (WD)
 T. Tschentscher (TT)
 M. Scholz (MS)

Distribution

Email list OB

Date

09 October 2017

Time & place

13:00 – 14:30; DESY, Bldg 24, R, 242

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.
- 6) AoB
 - Rules of Procedure OB

1. Minutes of last meeting and action items

The minutes from the last meeting were accepted with the change that DN did not participate in this meeting and corrected numbering of action items.

04.1: Still open issues with respect to safety organization. Work by S. Mohr (DESY) and XFEL-SRP ongoing.

0.2: DOOCS-Karabo interface:

- FEL beam position monitoring. Use XGM ? Better FEL imager with 10 Hz. Probably generated by injector (RF pulse to RF pulse). Will be addressed after Oct shutdown.
- FEL imager with priority
- HS & WD to establish list of static properties to be made available

2. Last Week

Summary of last week accelerator operation:

- After initial troubles to establish SASE, an old setting brought very good and stable.
- Discussed boundaries/possibility for electron/photon energy measurements
- Vacuum parts SASE3 have decayed to < 1mSv/h. Since the tunnel will not be operated this year, there is no need to do any repair before the Christmas shutdown.
- New access rules for XTL and XTDs following ACC operation implemented. ZZ access to XTL quite complex (5 doors with 7 keys each). Possibly establish dedicated console in BKR.

Follow up	
05.1	Find out with D3 about procedures for visitor groups under the new access rules to tunnels.

3. Next Week

- Interlock test INJ on Oct 18
- Goals for AD time
 - Highest possible electron energy operation of LINAC
 - Operate LINAC toward 300 bunches/train (RF gun with 300 µs pulse)

- Operate SASE1 for 1 week with < 1Gy dose exposure (30 b.); optimize settings in undulator to minimal losses
- Reach toward simulated gain length (BBA, phase-shifter, U K-values)
- Characterize SASE
- Will use spare laser for this coming period
- TT & WD to exchange time planning for AD time in order to include PS activities
- Will implement and test special bunch patterns

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.

6. AoB

a) Rules of Procedure

- FINAL draft approved. Awaiting approval by Governing Board

Follow-up

Follow up	
03.1	Strong pointing/source point jitter is observed. Monitors have to be added to accelerator controls for quantitative analysis, correlations and hunt for remedies. → measurements after Oct shutdown
03.4	Monitor progress on SASE3 photon diagnostics and adjust development schedule accordingly
04.1	Clarification of general safety organization. → still need to have confirmation by S. Mohr (DESY)/S. Kozielski (SRP-XFEL)
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).
05.1	Find out with D3 about procedures for visitor groups under the new access rules to tunnels.