|  |  |  |  |
| --- | --- | --- | --- |
| **Name of Meeting**: XFEL Commissioning Working Group |   | **Date:** | 23.09.2011 |
|  |  |  | **Location:** |  |
|  |  |  |  |  |
| **Meeting Chair:** | **Participants** | **Distribution List:** |
| W. Decking | Pflüger, Grünert, Sinn, Treusch, Tschentscher, Limberg, Yurkov, Shneydmiller, Decking | Pflüger, Grünert, Sinn, Treusch, Tschentscher, Limberg, Yurkov, Shneydmiller, Decking, Schreiber |
| **Minutes taken by:** |
| W. Decking |
| **Review by:** |
|  |
| **Status:** draft released |
|  |  |  |
| Topic: | 1st Meeting of working group on XFEL commissioning |
|  |
|  |
| Agenda: |  |
|  |
| No | Action Item | Due | Responsible | Ref. |
| 1 | Schedule and pre-conditions to reach MS3 |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

| **No** |  | **Keyword** | **Description** | **Responsible** | **Date** | **Status** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 |  | Accelerator Schedule | Global Schedule has been discussed* Linac completion and cool down is foreseen for summer 2015
* First beam through linac autumn 2015, from then on beam can be put into undulator tunnels
* System should be ready for first SASE end of 2015
 |  |  |  |
| 2 |  | E-beam parameters | A first set of e-beam parameters was given* Beam energy will be 17.5 GeV
* Linac will be operated with several tens of bunches (not single bunch) as fast as possible
* beam charge around 0.5 to 1 nC
 |  |  |  |
| 3 |  | Milestones | A first set of milestones was given. It is agreed that first lasing should be achieved asap after start-up, followed by a longer commissioning phase to consolidate the facility and add flexibility |  |  |  |
| 4 |  | Undulator sequence | Commissioning should start with SASE1 and continue with SASE3:* eases initial e-beam operation
* allows parallel commissioning of SA1 and SA3 photon beamlines
* if availability of components prevents installation of SASE3 and SASE1 the decision to install SASE2 first should be made as early as possible
* it is recommended from FLASH experience to focus activities on one beam line and commission this fully to benefit from the lessons learned and not double errors
 |  |  |  |
| 5 |  | Initial Wavelength | SASE search should be performed with fully closed gaps (i.e 0.16 nm wavelength at SASE1) |  |  |  |
| 6 |  | Experiments Schedule | A schedule of the sequence of experiments start-up was presented* sequential commissioning with 1-2 month gap between experiments
* all experiments expected operational by summer 2016
 |  |  |  |
| 7 |  | Next Steps | Short-term: Establish rough initial commissioning schedule and list of prerequisites to reach milestone #3Mid-term: establish strategy on how to continue after first lasing and what parameters might be available to start the initial operation phase, this will lead to recommendations on how to split/share beam time between users and commissioning in the first years of operation |  |  |  |
| 8 |  | Next Meeting | October 21, 2011; 30b/459 |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |