|  |  |
| --- | --- |
| european-xfel-logo-497x497 | Technical Meeting |
| Meeting Minutes |

|  |  |  |  |
| --- | --- | --- | --- |
| Chair | Tobias Haas |  Date | 9 March 2012 |
| Location | AER19/2.26 |  Time | 9:00 |
| Attendees | Martin Dommach, Andrew Aquila, Jens Buck, Tobias Haas, Markus Kuster, Max Lederer, Anders Madsen, Serguei Molodtsov, Joachim Schulz, Harald Sinn, Chris Youngman, Nicola Coppola |
| Distribution | Andrew Aquila, Christian Bressler, Nicola Coppola, Martin Dommach, Jan Grünert, Jens Buck, Tobias Haas, Sigrid Kozielski, Markus Kuster, Max Lederer, Anders Madsen, Adrian Mancuso, Jochen Metzen, Michael Meyer, Serguei Molodtsov, Joachim Pflüger Carola Schulz, Joachim Schulz, Andreas Schwarz, Harald Sinn, Thomas Tschentscher, Chris Youngman |

|  |  |
| --- | --- |
| Item 1 | Old Action Items |

|  |  |
| --- | --- |
| Topic  | DAQ and Control rack layout |
| Description | Produce a first layout of integrating DAQ and Control racks into the instrument layout  |
| Action | From the lists worked out by C. Youngman a conceptual floor plan for placing the racks in SPB will be made.  |
| Result | A first placement of the racks has been proposed. The result is in the presentation by C. Youngman |
| status | Closed |
| Who | T. Haas | When | 2 March 2012 |

|  |  |
| --- | --- |
| Topic  | DAQ and Control needs |
| Description | The DAQ and control needs should be extended to other instruments than SPB |
| Action | A list similar to the one made by C. Youngman and A. Mancuso for SPB will be made for FXE  |
| status | Open |
| Who | C. Bressler/C. Youngman | When | 30 March 2012 |

|  |  |
| --- | --- |
| Topic  | Common labs in XHQ not taken care of by WP79 |
| Description | The lab requirements have to be better specified  |
| Action | Two working groups will further specify common labs:* Biolabs: J. Schulz, Kozielski, Mancuso, Menzel (EMBL Bio lab 300m2, Crystal Storage 40m2, Mechanical Workshop 40m2, Electronic Workshop 40m2)
* General (non WP79) labs: Kuster, Grünert, Dommach (General electronics lab 300m2, Mechanical preparation lab 100m2, Cleanroom area, Vacuum preparation labs)
 |
| result | These labs are done:* Laser labs (Lederer/Bressler/Meyer)
* DAQ lab (Youngman)
* Cleanrooms, Detector lab, Electronics lab, Storage of sensitive equipment (Kuster)
* Vacuum (Dommach)
* WP81 (Bressler)
* Common Sample Prep labs (Schulz)
* MechPrep, Diagnostics (Grünert)
* Light Scatter lab (Madsen)
* Place holder labs (WP82, WP86)
* Dosimetry

These labs are still open:* WP84
 |
|  | Closed |
| Result | The requirements list is complete except for WP84. This will be added in the next few days |
| Who | All | When | 2 March 2012 |

|  |  |
| --- | --- |
| Topic  | Lab Access |
| Description | Labs should have doors to the outside to move in bulky pieces of equipment |
| Action | Include doors to the outside in the floor plan where possible |
| status | Open |
| Who | J. Metzen | When | 23 March |

|  |  |
| --- | --- |
| Topic  | Access to freight elevator |
| Description | Access to freight elevator involves many corners |
| Action | * Include access to freight elevator from outside
* Check that long pieces of equipment can be moved through the corridors
 |
| status | Closed |
| result | The new floor plan has wider corridors (4m) in critical areas in order to allow better access to the freight elevator |
| Who | J. Metzen | When | 2 March |

|  |  |
| --- | --- |
| Topic  | All labs |
| Description | Are all labs requested actually included in the floor plan |
| Action | Circulate floor plan and current state of lab list and check plan against list |
| status | Open |
| Who | C. Schulz/J. Metzen | When | 30 March |

|  |  |
| --- | --- |
| Topic  | Temperature Requirements |
| Description | The temperature requirements for the different hutches need to be specified. Current assumption is that laser and optics hutches have very tight requirements and the rest do not. S. Molodtsov states that for the SASE3 instruments the +- 0.5 K stability should be sufficient overall. |
| Action | Discuss technical solution with MKK to see what is technically feasible. First assumptions are as follows:* Move as many heat sources as possible out of optics, laser and experimental hutches
* Reduce the stabilized volume as much as possible
* Implement stabilization with decentralized units (similar to PETRA III) where needed relative to large stabilized hall volume
* Humidity stabilization is needed in laser hutches
 |
| status | Closed |
| result | A. Aquila presented the results for SPB in the meeting on 9 March |
| Who | T. Haas | When | 2 March |

|  |  |
| --- | --- |
| Topic  | Other requirements  |
| Description | What are requirements have to be taken into account |
| Action | Include these requirements into the planning:* Storage of waste and dangerous goods
* Gas house for bottles outside the hall
* Storage and filling station for LH2 and LN2
* Helium recovery
 |
| status | Closed |
| result | The requirements have been added to the requirements list. |
| Who | T. Haas/C. Schulz | When | 2 March |

|  |  |
| --- | --- |
| Item 2 | Experimental Hall Floor |

|  |  |  |  |
| --- | --- | --- | --- |
| Presenter | A. Aquila | Time |  |
|

|  |  |
| --- | --- |
| Topic  | Cost of temperature stabilization |
| Description | What does it cost to stabilize a heat load of 180 kW to 0.1K precision? |
| Action | Discuss with MKK what technical solution and what cost is associated |
| status | Open |
| Who | T. Haas |  | 23 March |

|  |  |
| --- | --- |
| Topic  | Detector requirements |
| Description | The power requirements of the detectors are to be refined |
| Action | M. Kuster and C. Youngman to discuss the power requirements of the detectors |
| status | Open |
| Who | M. Kuster/C.Youngman |  | 23 March |

|  |  |
| --- | --- |
| Topic  | Power in the SPB Optics Hutch |
| Description | The power requirements in the SPB optics hutch needs to be specified |
| Action | Write down power in the optics hutch |
| status | Open |
| Who | A. Aquila |  | 23 March |

|  |  |
| --- | --- |
| Topic  | Interlock, infrastructure and safety |
| Description | The needs for interlocks, infrastructure and safety equipment needs to be added |
| Action | Collect the interlock, infrastructure and safety needs |
| status | Open |
| Who | T. Haas |  | 23 March |

|  |  |
| --- | --- |
| Topic  | Consistency of power numbers |
| Description | Need to check that the power numbers from A. Aquila and C. Youngman are consistent. |
| Action | Compare A. Aquila’s and C. Youngman’s power numbers |
| status | Open |
| Who | A. Aquila/C. Youngman |  | 23 March |

|  |  |
| --- | --- |
| Topic  | Third beam line |
| Description | Should the third beamline/instrument per experimental area be maintained? |
| Action | A. Schwarz to ask the MB |
| status | Open |
| Who | A. Schwarz |  | 23 March |

|  |  |
| --- | --- |
| Topic  | Rack placement |
| Description | Where should the racks in SPB be placed to satisfy cable lengths requirements |
| Action | N. Saaristo to calculate the cable lengths from his model |
| status | Open |
| Who | N. Saaristo |  | 23 March |

Next Meeting: 23 March 2012 |