|  |  |
| --- | --- |
| **European XFEL Beam Commissioning Planning****Beam Time Request Questionnaire** | https://www.xfel.eu/sites/site_xfel-gmbh/content/e63415/e63438/e162890/e162904/european-xfel-logo_rgb_eng.gif |
| **Date (Month/Day/Year)** | **Do not fill** |

**Contact Person**

|  |  |
| --- | --- |
| **Name** | **Work Package/Group** |
| **E-Mail** |
| **Phone** |

**Component**

|  |  |  |
| --- | --- | --- |
| **Name** | **Section/ Instrument** | **Z (LA)** |
| **Description** |

**Commissioning Goal**

**(give a short description of commissioning goal and indicate the anticipated commissioning phase)**

|  |  |
| --- | --- |
| **Basic commissioning (enable basic functionality of system)** | **[ ]**  |
| **Full commissioning (enable specified functionality of system)** | **[ ]**  |
|  |

**Required Time (in hours)**

|  |  |
| --- | --- |
| **Dedicated** |  |
| **Parasitic** |  |

**Required Electron Beam Parameters**

**(please check, values in bold should be available after basic commissioning, if only specific photon parameters are required check there and leave corresponding electron beam parameter empty)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Section  | GUN [ ]  | INJ [ ]  | BC1 [ ]  | BC2 [ ]   | LINAC [ ]  | SA1/3 [ ]   | SA2 [ ]   |
| Charge  | 0.1 nC [ ]   | 0.25 nC [ ]   | **0.5 nC** **[ ]**  | 1 nC [ ]  |  other:       |
| Compression after BC2  | **none** **[ ]**  | **5 kA** **[ ]**  |  other:       |
| Energy  | 10.5 GeV [ ]  | 14 GeV [ ]  | **17.5 GeV** **[ ]**  |  other:       |
| # of bunches  | **1** **[ ]**  | **30** **[ ]**  | **100** **[ ]**  | 1000 [ ]  | 2700 [ ]  |  other:        |
| bunch frequency | **single** **[ ]**  | **0.1 MHz** **[ ]**  | **1 MHz** **[ ]**  | **4.5 MHz** **[ ]**  |  other:       |
| Transverse stability requirement  | **none** **[ ]**  | **0.5 ****[ ]**  |  other:       |
| Energy stability requirement  | **none** **[ ]**  | **1e-3** **[ ]**  |  other:       |
| Charge stability requirement  | **none** **[ ]**  | **1%** **[ ]**  |  other:       |
| Peak current stability requirement current | **none** **[ ]**  | **10%** **[ ]**  |  other:       |

**Photon parameters**

**(please check, values in bold should be available after basic commissioning)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Section  | SA1 [ ]  | SA2 [ ]  | SA3 [ ]  |  |
| Photon pulse length requirement  | **none** **[ ]**  | **100 fs** **[ ]**  |  other:       |
| Pulse energy requirement | **none** **[ ]**  |  other:       |
| Photon energyrequirement | **none** **[ ]**  | **6 keV / 0.9 keV** **[ ]**  |  other:       |
| Photon energy range requirement | **none** **[ ]**  |  other:       |
| Bandwidth requirement | **none** **[ ]**  |  other:       |

**Involved Personnel**

|  |
| --- |
| **Own** |
|  |
| **Others required** |
|  |

**Prerequisites**

**(Indicate systems or procedures that are mandatory for your commissioning goal)**

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|  |

**Special Requests**

**(Indicate any special requests)**

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|  |

**Comments**

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