|  |  |  |
| --- | --- | --- |
| **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 energy  requirement | **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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|  |