|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Overall**Sample change checklist** |  | Venting |  | Pumping down |  |
| Sample-OSA distance is sufficient at required angle |[ ]  Close shutter |[ ]  Take picture of sample surface |[ ]
| Verify region of interest <4mm to any upstream edge |[ ]  genie\_in() |[ ]  Sample in |[ ]
| Exit wave has clear path to detector |[ ]  zp\_out() |[ ]  Close bay door |[ ]
| Use Leica microscope to find distance to ROI from fiducials |[ ]  prism\_in() |[ ]  Sample theta-🡪 0.0 |[ ]
|  |[ ]  Stop turbo |[ ]  AttoX 🡪 surface to mark(Use on-axis scope: left TV screen) |[ ]
|  |[ ]  Turbo at “levitation” |[ ]  Sample theta 🡪 40 |[ ]
|  |[ ]  Close roughing pump valve |[ ]  SamY/AttoZ 🡪 ROI to mark |[ ]
|  |[ ]  Turn off roughing pump |[ ]  Close needle valve |[ ]
|  |[ ]  Open needle valve |[ ]  Close top valve |[ ]
|  |[ ]  Hissing sound stopped |[ ]  Start roughing pump |[ ]
|  |[ ]  Open sample door |[ ]  Vacuum < **1 torr** |[ ]
|  |[ ]  Sample theta to 30 degrees |[ ]  Start turbo |[ ]
|  |[ ]  Use forceps extract sample |[ ]  48000 rpm achieved |[ ]
|  |  |  |[ ]  genie\_in() |[ ]
|  |  |  |[ ]  prism\_out() |[ ]
|  |  |  |  | beamstop\_out() |[ ]
|  |  |  |  | Open shutter |[ ]
|  |  |  |  | Set sample theta to 0 (genie) |[ ]
|  |  |  |  | zp\_in() |[ ]
|  |  |  |  | medipix\_in() |[ ]
|  |  |  |  | Adjust OSA alignment |[ ]
|  |  |  |  | Split focused beam with sample |[ ]