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| Traveler Title | LCLS-II-HE BPM Housing Inspection Traveler |
| Traveler Abstract | Traveler defines the inspection process for the LCLS-II-HE BPM Housing |
| Traveler ID | L2HE-INSP-BPM |
| Traveler Revision  | R1 |
| Traveler Author | Michelle Oast |
| Traveler Date | 24-Mar-22 |
| NCR Informative Emails | Hogan |
| NCR Dispositioners | Weinmann,kwilson |
| D3 Emails | Weinmann,kwilson,Hogan,mdickey |
| Approval Names | Michelle Oast | Liang Zhao | Katherine Wilson | John Hogan |
| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author | Reviewer | Reviewer | Project Manager |

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| References | List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility related documents. |
| [Cold BPM Assembly](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-254214/F10023160_G_DWG1.pdf) | [BPM Housing](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-254215/F10030776_D_DWG1.pdf) |  |  |  |
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| Revision Note |  |
| R1 | Initial release of this Traveler. |

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| Step No. | Instructions | Data Input |
| General handling guidelines: Both end flanges contain sealing surfaces. Care shall be taken to avoid scratching/gouging these surfaces and protective covers shall be installed over these surfaces at all possible times. |
| 1 | Initial Inspection: |
| Technician NameDate of InspectionSerial Number | [[InspectionTech]] <<USERNAME>>[[InspectionDate]] <<TIMESTAMP>>[[BPMSN]] <<BPMSN>> |
| Is part clean, free from dust, oil, finger prints or other contaminants? | [[PartClean]] <<YESNO>> |
| Inspect the flanges’ sealing surfaces for scratches/gouges. | [[SealingSurfaceOK]] <<YESNO>> |
| Visually inspect the assembly for any pitting on internal and external surfaces. (Note shallow pitting in the comments, do not create NCR for shallow pitting.) | [[PittingOK]] <<YESNO>>[[Pitting\_Comment]] <<COMMENT>> |
| Measure surface finish of seal groove of both flanges. Indicate "no" if roughness is equal to or higher than 0.8 um. | [[Flange1]] <<YESNO>>[[Flange2]] <<YESNO>> |
| Comments:• If discrepancies are found, upload photos of the discrepancy. | [[VisualInspComment]] <<COMMENT>>[[BPMH\_Photos]] <<FILEUPLOAD>> |
| 2 | Plating Inspection: |  |
| Comment on, but do not create NCRs for the following issues if found:• Light spots• Water marks• Dark spots under 1/8" in diameter• Small dents under 1/8" in diameter• Darker shading than is typical of the overall copper plating• Shallow pittingBorescope not necessary. |  |
| Technician NameDate of Inspection | [[PlatingTech]] <<USERNAME>>[[PlatingInspectionDate]] <<TIMESTAMP>> |
|  | Does copper plating cover the designated area shown in drawing F10030776? | [[PlatingCoverageOK]] <<YESNO>> |
| Is there pitting that goes through the plating? | [[Pitting]] <<YESNO>> |
| Is there flaking in the plating? | [[Flaking]] <<YESNO>> |
| Is there blistering of the plating? | [[Blistering]] <<YESNO>> |
| Are there dark spots over 1/8” in diameter in the plating? | [[DarkSpots]] <<YESNO>> |
| Are there areas over 1/8" in diameter missing plating? | [[BareSpots]] <<YESNO>> |
| Comments:• If discrepancies are found, upload photos of the discrepancy. | [[PlateVisInspComment]] <<COMMENT>>[[BPMPlating\_Photos]] <<FILEUPLOAD>> |
| 3 | Cleaning: |  |
| Seal surfaces require manual polishing and cleaning to meet UHV standard. Specify in each comment box which cleaning/polishing method was utilized.Upload before and after pictures. | [[Cleaning\_Method]] <<COMMENT>>[[Polishing\_Method]] <<COMMENT>>[[Before\_Photos]] <<FILEUPLOAD>>[[After\_Photos]] <<FILEUPLOAD>> |
| 4 | General Comments:• Use this for general comments or comments that don’t fit in the categories above. | [[GenComment]] <<COMMENT>> |