|  |  |
| --- | --- |
| Traveler Title | AUP H-HOM Damper Final Tuning and Shipping Prep |
| Traveler Abstract | Outlines the tuning and shipping preparation for the HHOM Damper Assembly |
| Traveler ID | AUP-ASSY-DAMP-FPREP |
| Traveler Revision  | R1 |
| Traveler Author | Naeem Huque |
| Traveler Date | 8-Jan-22 |
| NCR Informative Emails | jharris |
| NCR Dispositioners | Huque |
| D3 Emails | Huque |
| Approval Names | Naeem Huque | Danny Forehand | Ashley Anderson Mitchell | Ed Daly |
| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author | Reviewer | Reviewer | Group Lead |

|  |  |
| --- | --- |
| 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. |
| [CERN EDMS No. 1389669](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-211730/EDMS%201389669%20-%20Engineering_specification_dressed_cavities.v2.5%281%29.pdf) | [CP-STP-CAV-CHEM-ACID](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-211742/CP-STP-CAV-CHEM-ACID-R1.pdf) | [JL0093253](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-246139/JL0093253_-_AUP%20RFD%20CAVITY%20DAMPER%20ASSY.pdf) | [CP-STP-CAV-CHEM-DEGR](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-211743/CP-STP-CAV-CHEM-DEGR-R3.pdf) | [JL0115790](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-246140/JL0115790_-_HHOM%20DAMPER%20SHIPPING%20CONFIGURATION.pdf) |
| [JL0093243](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-246141/JL0093243_A_H-HOM%20FEEDTHROUGH%20ASSY.pdf) | [JL0059276-RF](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-251779/RF%20Test%20Box%20for%20HHOM%20Measurement%20and%20Qualification%282%29.docx) | [JL0115808](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-246142/JL0115808_-_HHOM-FT%20COVER.pdf) | [JL0086007](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-246136/JL0086007_A_AUP%20RFD%20HOM%20DAMPER.pdf) | [JL0114065](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-246143/JL0114065_-_SHIPPING%20COVER.pdf) |

|  |  |
| --- | --- |
| Revision Note |  |
| R1 | Initial release of this Traveler. |

|  |  |  |
| --- | --- | --- |
| Step No. | Instructions | Data Input |
| 1 | Serial Number of JL0115790Serial Number of JL0086007 | [[FPREPSN]] <<FPREPSN>>[[FASSYSN]] <<FASSYSN>> |
| RF TESTING |
| 2a | Assemble JL0086007 and JL0093243 as per JL0093253 | [[Asmbly1Tech]] <<SRF>>[[Asmbly1Time]] <<TIMESTAMP>>[[Asmbly1Comm]] <<COMMENT>>[[Asmbly1File]] <<FILEUPLOAD>> |
| 2b | Install the assembly on the RF Test Box and measure the notch as per JL0059276-RF. If results are acceptable, select YES; otherwise, list proposed modifications to HHOM Feedthrough and proceed to next interationTest results (upload)Modifications required for HHOM Feedthrough | [[RFTech1]] <<SRF>>[[RFTime1]] <<TIMESTAMP>>[[RFComm1]] <<COMMENT>>[[RF1Ok]] <<YESNO>>[[RFTest1]] <<FILEUPLOAD>>[[FTMod1Comm]] <<COMMENT>>[[FTMod1Upload]] <<FILEUPLOAD>> |
| 2c | Is an iteration required?Install the assembly on the RF Test Box and measure the notch as per JL0059276-RF. If results are acceptable, select YES; otherwise, list proposed modifications to HHOM Feedthrough and proceed to next interationTest results (upload)Modifications required for HHOM Feedthrough | [[Iter3YN]] <<YESNO>>[[RFTech2]] <<SRF>>[[RFTime2]] <<TIMESTAMP>>[[RFComm2]] <<COMMENT>>[[RF2Ok]] <<YESNO>>[[RFTest2]] <<FILEUPLOAD>>[[FTMod2Comm]] <<COMMENT>>[[FTMod2Upload]] <<FILEUPLOAD>> |
| 2d | Is an iteration required?Install the assembly on the RF Test Box and measure the notch as per JL0059276-RF. If results are acceptable, select YES; otherwise, list proposed modifications to HHOM Feedthrough and proceed to next interationTest results (upload)Modifications required for HHOM Feedthrough | [[Iter3YN]] <<YESNO>>[[RFTech3]] <<SRF>>[[RFTime3]] <<TIMESTAMP>>[[RFComm3]] <<COMMENT>>[[RF3Ok]] <<YESNO>>[[RFTest3]] <<FILEUPLOAD>>[[FTMod3Comm]] <<COMMENT>>[[FTMod3Upload]] <<FILEUPLOAD>> |
| 2e | Is an iteration required?Install the assembly on the RF Test Box and measure the notch as per JL0059276-RF. If results are acceptable, select YES; otherwise, list proposed modifications to HHOM Feedthrough and proceed to next interationTest results (upload)Modifications required for HHOM Feedthrough | [[Iter4YN]] <<YESNO>>[[RFTech4]] <<SRF>>[[RFTime4]] <<TIMESTAMP>>[[RFComm4]] <<COMMENT>>[[RF4Ok]] <<YESNO>>[[RFTest4]] <<FILEUPLOAD>>[[FTMod4Comm]] <<COMMENT>>[[FTMod4Upload]] <<FILEUPLOAD>> |
| 2f | If further iterations are required, combine required files from future tests into a single file (along with timestamps) and upload | [[AddRFTestUpload]] <<FILEUPLOAD>>[[AddRFTestComm]] <<COMMENT>> |
| CHEMISTRY |
| 3a | Degrease and Chemical Polish the **Niobium Space** of JL0086007 to a depth of 30µm as per CERN EDMS No. 1825148 following JLab Procedure CP-STP-CAV-CHEM-ACID. Degrease the **Stainless Steel Space** as per CP-STP-CAV-CHEM-DEGRUpload any relevant photos and/or comments | [[BCPTech]] <<SRF>>[[BCPTime]] <<TIMESTAMP>>[[BCPComm]] <<COMMENT>>[[BCPFile]] <<FILEUPLOAD>> |
| 3b | Degrease the HHOM Feedthrough (JL0093243) as per CP-STP-CAV-CHEM-DEGR | [[DG1Tech]] <<SRF>>[[DG1Time]] <<TIMESTAMP>>[[DG1Comm]] <<COMMENT>>[[DG1File]] <<FILEUPLOAD>> |
| 3c | Degrease JL0115808, JL0114065 and the hardware shown in JL0115790 as per CP-STP-CAV-CHEM-DEGR | [[DG2Tech]] <<SRF>>[[DG2Time]] <<TIMESTAMP>>[[DG2Comm]] <<COMMENT>>[[DG2File]] <<FILEUPLOAD>> |
| ASSEMBLY |
| 4 | Assemble the following parts in the cleanroom as per JL0093253 and JL0115790:JL0086007JL0093243JL0115808JL0114065MDC-110025 (6” CF Blank Flange) | [[AsmblyTech]] <<SRF>>[[AsmblyTime]] <<TIMESTAMP>>[[AsmblyComm]] <<COMMENT>>[[AsmblyFile]] <<FILEUPLOAD>> |
| FINAL CHECKS |
| 5 | Check that all travelers and NCRs for this part have been dispositioned and/or closed | [[FinalHold]] {{huque}} <<HOLDPOINT>> |