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| Traveler Title | Receiving Inspection for 8 pin Cryogenic Feedthroughs | | | |
| Traveler Abstract | Traveler to provide the necessary steps to perform receiving inspection on 8 pin feedthroughs used on C100 cryomodules. Receiving inspection includes visual, electrical, cold shock, and leak check. | | | |
| Traveler ID | C100R-CMA-FT08P -INSP | | | |
| Traveler Revision | R1 | | | |
| Traveler Author | Liang Zhao | | | |
| Traveler Date | 6-Dec-23 | | | |
| NCR Informative Emails | areilly,king | | | |
| NCR Dispositioners | lzhao,fischer,king,ganey | | | |
| D3 Emails | lzhao,fischer,ganey,areilly,king | | | |
| Approval Names | Liang Zhao | John Fischer | Larry King | Tony Reilly |
| 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. | | | |
| [CRM1207014-0001- CAVITY STRING, OUTSIDE THE CLEANROOM RevA (C100)](https://misportal.jlab.org/jlabDocs/documents/versions/184780) | [JLab Spec 11141S0029 RevB Standard Vacuum Leak Check Requirements](https://misportal.jlab.org/jlabDocs/documents/versions/128664) | JLAB SPEC 11141S0101 CRYOGENIC INSTRUMENTATION FEEDTHRU 8 CONDUCTOR, latest revision | Solid Sealing Technology Drawing KT49085 RevA | [JLab TN-12-202\_Memo of Cryogenic 8-Conductor Feedthroughs](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-60290/12-020.pdf) |

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| Revision Note |  |
| R1 | Initial release of this traveler. Inspection steps are based on C100-CM-INSP-ELFT-R2. Updated traveler name, contacting names, and reference documents. Removed inventory and serialization step. Inventory is done by inventoray group. Serialization is done by the vendor. |

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| Step No. | Instructions | Data Input |
| 1 | Part verification:  Select vendor name  Enter part serial number  For any notes related to source or history of this part, leave a comment. | [[VendorName]] {{SST,Others}} <<SELECT>>  [[VendorName\_Other]] <<COMMENT>>  [[FT08PSN]] <<FT08PSN>>  [[VerificationTechnician]] <<SRF>>  [[DateVerified]] <<TIMESTAMP>>  [[VerifyComment]] <<COMMENT>>  [[PartPhoto]] <<FILEUPLOAD>> |

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| Step No. | Instructions | Data Input |
| 2 | Visually inspect feedthrough.  Is part clean, free from dust, oil, finger prints, or brazing residue  Pins straight on either end  Knife edge good  Carefully test fit ceramic plugs into either end  Note any non conformances. | [[VisInspTech]] <<SRF>>  [[VisInspDate]] <<TIMESTAMP>>  [[VisInspComm]] <<COMMENT>> |
| 3 | Electrically check all pins to the feedthru case and pin continuity through ceramic, using DVM and fabbed harness. | [[ElecCheckTech]]<<SRF>>  [[ElecCheckDate]] <<TIMESTAMP>>  [[ElecCheckComm]] <<COMMENT>> |
| 4 | Leak check feedthrough to JLAB Specification 11141S0029 RevB "Leak Check of Small Items". Leak Rate not to exceed 2e-10 atm cc/sec of He. | [[LeakCheckTech]] <<SRFCMP>>  [[LeakCheckDate]] <<TIMESTAMP>>  [[LeakCheckGood]] <<YESNO>>  [[LeakCheckStripChart]] <<FILEUPLOAD>>  [[LeakCheckComm]] <<COMMENT>> |
| 5 | Cold Shock the feedthrough:  Perform in the VTA  Place the feedthrough in a stainless steel basket suspended in test stand. Wire each feedthrough to basket.  Cool down to 4K, mimicking the standard rate, ~ room temp to 4K in 1 hour.  Fill the dewer enough to cover the sample in LHe.  Warm to room temperature; repeat 2 additional times. Total of 3 cycles. | [[VTATech]] <<SRF>>  [[VTADate]] <<TIMESTAMP>>  [[VTAComm]] <<COMMENT>> |
| 6 | Blow off, re-leak check feedthrough to JLAB Specification 11141S0029 RevB "Leak Check of Small Items". Leak Rate not to exceed 2e-10 atm cc/sec of He. | [[ReLeakCheckTech]] <<SRFCMP>>  [[ReLeakCheckDate]] <<TIMESTAMP>>  [[ReLeakCheckGood]] <<YESNO>>  [[ReLeakCheckStripChart]] <<FILEUPLOAD>>  [[ReLeakCheckComm]] <<COMMENT>> |
| 7 | Re-package feedthrough, send to inventory area until use. | [[InvTech]] <<SRF>>  [[InvTechDate]] <<TIMESTAMP>> |