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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 nameEnter part serial numberFor 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>>[[Comment1]] <<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 residuePins straight on either endKnife edge goodCarefully test fit ceramic plugs into either endNote any non conformances. | [[Technician2]] <<SRF>>[[Date2]] <<TIMESTAMP>>[[Comment2]] <<COMMENT>> |
| 3 | Electrically check all pins to the feedthru case and pin continuity through ceramic, using DVM and fabbed harness. | [[ElectricalTechnician3]] <<SRF>>[[Date3]] <<TIMESTAMP>>[[Comment3]] <<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. | [[LeakCheckTechnician4]] <<SRFCMP>>[[Date4]] <<TIMESTAMP>>[[LeakCheckGood4]] <<YESNO>>[[UploadStripChart4]] <<FILEUPLOAD>>[[Comment4]] <<COMMENT>> |
| 5 | Cold Shock the feedthrough:Perform in the VTAPlace 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. | [[VTATechnician5]] <<SRF>>[[Date5]] <<TIMESTAMP>>[[Comment5]] <<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. | [[LeakCheckTechnician6]] <<SRFCMP>>[[Date6]] <<TIMESTAMP>>[[LeakCheckGood6]] <<YESNO>>[[UploadStripChart6]] <<FILEUPLOAD>>[[Comment6]] <<COMMENT>> |
| 7 | Re-package feedthrough, send to inventory area until use. | [[InventoryTechnician7]] <<SRF>>[[Date7]] <<TIMESTAMP>> |