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| Traveler Title | ER5C Cavity Pair Component Leak Check Traveler | | | |
| Traveler Abstract | The purpose of this document is to capture the vacuum leak checks of various components used for cavity pair assemblies. | | | |
| Traveler ID | ER5C-CMA-COMP-LEAK | | | |
| Traveler Revision | R3 | | | |
| Traveler Author | C. Wilcox | | | |
| Traveler Date | 27-Jun-25 | | | |
| NCR Informative Emails | areilly,wilcox | | | |
| NCR Dispositioners | Fischer,forehand | | | |
| D3 Emails | areilly,wilcox,forehand,fischer | | | |
| Approval Names | C. Wilcox | D. Forehand | J. Fischer | A. Reilly |
| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author | Reviewer 1 | Reviewer 2 | Project Representative |

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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. | | | |
| [11151-C-0073](https://misportal.jlab.org/jlabDocs/documents/versions/59434/download)  Inner Adapter Final Assembly | [11151-C-0216](https://misportal.jlab.org/jlabDocs/documents/versions/184751/download)  Flanged Bellows Assembly | [11151-C-0219](https://misportal.jlab.org/jlabDocs/documents/versions/184752/download)  End Dish and Bellows Assembly | [22632S001](https://misportal.jlab.org/jlabDocs/documents/versions/192253/download)  Cleaning and Handling of UHV Components | [11141S0029](https://misportal.jlab.org/jlabDocs/documents/versions/192249/download)  High Sensitivity Vacuum Leak Check Requirements |
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| Revision Note |  |
| R1 | Initial release of this Traveler. |
| R2 | Added instructions and data fields to Step 4 for supporting the component and recording the component overall length before and after leak check. |
| R3 | Added FPFT and FT08P |

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| Step No. | Instructions | Data Input |
|  | **This is an ultra high vacuum component. Wear talc free latex gloves at all times when handling this part.** | |
| 1 | Enter inspector's name and date: | [[LeakCheckTech]] <<SRFCMP>>  [[LeakCheckDate]] <<TIMESTAMP>> |
| 2 | Select the reason for the leak check.   |  |  |  | | --- | --- | --- | | Description | Component Type | Drawing | | Inner Adapter | INAD | 11151-C-0073 | | Flanged Bellows Assembly | FBA | 11151-C-0216 | | End Dish and Bellows Assembly | ENDD | 11151-C-0219 | | Field Probe Feed Thru | FPFT |  | | 8 Pin Feed Thru | FT08P |  |   If the leak check is being performed for any other reason, select Other and provide details in the Comment box. | [[LeakCheckReason]] {{InnerAdapter,FlangedBellowsAssembly,EndDishBellowsAssembly,FieldProbe,8PinOther}} <<RADIO>>  [[ReasonOtherComment]] <<COMMENT>> |
| 3 | Using the table above, select the component type and Serial Number:  Only enter the serial number associated with the current reason for the leak check. Leave the other serial number fields blank. | [[CompType]] {{INAD,FBA,ENDD,FPFT,FT08P}} <<SELECT>>  [[INADSN1]] <<INADSN>>  [[FBASN1]] <<FBASN>>  [[ENDDSN1]] <<ENDDSN>>  [[FPFTSN]] <<FPFTSN>>  [[FT08PSN]] <<FT08PSN>>  [[DropSN]] <<TEXT>>  [[Combine CompType and matching SN into DropSN for the traveler select box]] <<NOTE>> |
| 4 | If the component has bellows, support the bellows during leak check and verify that the overall length of the part remains the same before and after the leak check.  Leak check per 11141-S-0029.  Minimum Detectable Leak 1×10^-10 atm.cc/sec He  Component passed leak check?  Upload files if applicable. | Was the component supported for the leak check?  [[CompSupported]] <<YESNO>>  Record the component overall length before the leak check.  [[PreLeackCheckOAL]] <<FLOAT>> (inches)  Record the component overall length after the leak check.  [[PostLeakCheckOAL]] <<FLOAT>> (inches)  [[LeakCheckPassed]] <<YESNO>>  [[LeakCheckCompleteDate]] <<TIMESTAMP>>  [[LeakCheckFile]] <<FILEUPLOAD>>  [[LeakCheckComment]] <<COMMENT>> |
| 5 | Create NCR(s) if necessary and close this traveler. |  |