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| Traveler Title | C75 cavity pair warm dewar leak check |
| Traveler Abstract | This traveler captures data from the warm dewar leak check of C75 cavity pairs |
| Traveler ID | C75-CPR-ASSY-WDLC |
| Traveler Revision  | R1 |
| Traveler Author | G. Ciovati |
| Traveler Date | 14-Jul-20 |
| NCR Informative Emails | gciovati, macha, davis, forehand |
| NCR Dispositioners | gciovati, macha, davis, forehand |
| D3 Emails | gciovati, macha, davis, forehand |
| Approval Names | G. Ciovati | D. Forehand | K. Macha |  |
| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author | 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. |
| [CP-STP-CRANE-CAV-PREP-R1](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-212735/CP-STP-CRANE-CAV-PREP-R1.pdf)Vacuum preparation for crane move procedure | [CP-STP-CSA-TST-PUMPM-R1](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-212736/CP-STP-CSA-TST-PUMPM-R1.pdf)VSA test stand pumping procedure | [CP-STP-VTA-TST-PUMPUP-R1](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-212737/CP-STP-VTA-TST-PUMPUP-R1.pdf)VTA Test Stand Pumping Procedure | [RGA Leak Sizing](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-213485/LEAK%20SIZING%20FOR%20RGA_S.xlsx)Leak Rate Size calculator |  |
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| Revision Note |  |
| R1 | Initial release of this Traveler. |

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| Step No. | Instructions | Data Input |
| 1 | Select the cavity pair serial numberSelect the dewar number | [[CPRSN]] <<CPRSN>>[[DewarNumber]] {{5,7,8}} <<SELECT>>[[DateTime]] <<TIMESTAMP>> |
| 2 | Verify that the cavity is being actively pumped.Connect the Residual Gas Analyzer (RGA) to a computer and run the RGA software in “He Leak Test” mode.Evacuate the dewar to below 100 Torr.Ensure the RGA helium partial pressure is below 9e-11 Torr and the trace is level and stable. Record the He partial pressure.Close the calibrated helium leak. The RGA helium trace should have a clear visible drop in pressure. Allow the helium trace to run for a few minutes to establish a baseline. Record the He partial pressure.Backfill the dewar with helium all the way to 760 Torr.Allow the RGA trace to run for at least 10 minutes. If no change in helium partial pressure is seen during this time the cavity pair is leak tight. Stop the RGA trace, save and post the leak test results.If a change in He partial pressure is detected, record the He partial pressure and calculate the leak size with the spreadsheet calculator [RGALeakSizing\_NEW](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-213485/RGALeakSizing_NEW.xls). Save data, upload the RGA trace and submit an NCR. | [[PassLeakTest]] <<YESNO>>[[LeakRateSize]] <<SCINOT>> std\*cc/s[[RGATracePic]] <<FILEUPLOAD>>[[RGATraceTxt]] <<FILEUPLOAD>>[[WDLCComment]] <<COMMENT>>[[Operator]] <<SRFCVP>> |