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| Traveler Title | SNSPPU Cavity Transfer to Test Stand |
| Traveler Abstract | This traveler verifies proper transfer of SNSPPU cavities to test stands in preparation for VTA testing |
| Traveler ID | SNSPPU-CAV-TRANS-TSTD |
| Traveler Revision  | R1 |
| Traveler Author | D. Forehand |
| Traveler Date | 26-Apr-20 |
| NCR Informative Emails | Edaly |
| NCR Dispositioners | Forehand,kdavis,Dhakal |
| D3 Emails | Edaly,forehand,kdavis,Dhakal |
| Approval Names | D. Forehand | P. Dhaka | K. Davis | E. Daly |
| 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. |
| SNSPPU Cavity Transfer to Test Stand Procedure (link not available) |  |  |  |  |
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| Revision Note |  |
| R1 | Initial release of this Traveler. |

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| Step No. | Instructions | Data Input |
| 1 | At this point the cavity has arrived from the vendor and had incoming RF and dimensional inspections. It has been wiped down by the chemistry staff and passed into the clean room on a CTV. Cavity with Hellium VesselTransfer the cavity into the two-arm cavity lifting fixture and move it into the VAA. | [[CAVSN]] <<CAVSN>>[[Technician]] <<SRFCVP>>[[HELV]] <<YESNO>>Yes or No Option[[Comment]] <<COMMENT>> |
| 2 | Hang cavity in the test stand with the lifting fixture and secure the plates to the square blocks attached to the helium vessel.Verify that the cavity isolation valve is in the fully closed position. Remove four bolts from the bellows blank on the test stand down-tube. Spray the flange and holes with ionized nitrogen while watching a particle counter. Wait until the counts are below fifty at all sizes for a minimum of ten seconds. Repeat this procedure for the blank flange located on the right angle cavity isolation valve.Remove the remaining two bolts on the valve blank and spray the inside of the right angle valve (bellows area) until the counts are less than ten at all sizes for ten seconds. Remove the remaining two bolts from the test stand bellows blank on the down-tube. DO NOT spray the bellows flange after the blank is removed.Place a clean copper gasket onto the joint and connect the test stand flange to the right angle cavity isolation valve. Tighten all fasteners.Start the pumping system on the test stand top plate ( slow pump-down is not necessary at this point). | [[VTATSSN]] <<VTATSSN>>[[Isolation\_Valve\_Closed]] <<YESNO>> [[Comment]] <<COMMENT>> |
| 3 | Test stand flange to cavity isolation valve joint is ready to be leak checked after the vacuum is below 8e-7 mbar. Set the RGA for an analog scan looking at mass 2 thru 65. Leak check this joint while the valve is still closed using the RGA system attached to the test stand. There shall be no detectable leak on this joint with an MDL less than 4E-10 std cc/sec. Upload lk check file.Valve can be slowly opened while the vacuum system is being monitered for maximum visible pressure. Record the highest pressure observed. | [[Isolation\_Valve\_Open]] <<YESNO>>[[Observed pressure]] <<SCINOT>>mbar[[TestStandAnlogScan]] <<FILEUPLOAD>>[[TestStandLeak Check]] <<FILEUPLOAD>>[[Comment]] <<COMMENT>>[[Date]] <<TIMESTAMP>> |
| 4 | The cavity is ready for a leak test after the vacuum system is below 8e-7 mbar. Set the RGA for an analog scan looking at mass 2 thru 65. Upload scan. Leak check all mechanical joints on the cavity and the burst disk using the RGA system attached to the test stand. There shall be no detectable leak on this joint with an MDL less than 4E-10 std cc/sec. Upload leak check file.Cavity is ready to be moved to VSA for VTA test. | [[CavityAnlogScan]] <<FILEUPLOAD>>[[Cavity Lk Chk]] <<FILEUPLOAD>>[[Comment]] <<COMMENT>>[[Date]] <<TIMESTAMP>> |