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| Traveler Title | P1 Cavity VTA HOM Survey | | | |
| Traveler Abstract | This traveler will document the cryogenic HOM survey of P1 cavities. | | | |
| Traveler ID | P1-VTA-CAV-HOM | | | |
| Traveler Revision | R1 | | | |
| Traveler Author | P. Owen | | | |
| Traveler Date | 28-Sep-20 | | | |
| NCR Informative Emails | areilly,kdavis | | | |
| NCR Dispositioners | powen,haipeng | | | |
| D3 Emails | areilly,kdavis,haipeng,powen | | | |
| Approval Names | P. Owen | H. Wang | A. Reilly |  |
| 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. | | | |
| VTA OSP | HOM Survey Template | HOM Processed Data Template |  |  |

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| Revision Note |  |
| R1 | Initial release of this Traveler. |

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| Step No. | Instructions | Data Input |
| 1 | Input P1 cavity SN.  Note any special handling, processing (chemistry or bake) or off-normal conditions associated with this cavity before test. | [[CAVSN]] <<CAVSN>>  [[SpecialHandling]] <<COMMENT>> |
| 2 | Record date of the HOM Survey, dewar number, test stand SN and Operator(s). | [[TestDate]] <<TIMESTAMP>>  [[Dewar]]{{3,4,7,8}} <<SELECT>>  [[TestStandSN]] <<SN>>  [[SurveyOperator1]] <<VTAOPS>>  [[SurveyOperator2]] <<VTAOPS>> |
| 3 | Record cavity vacuum pressure, if so instrumented. | [[CavityVacuum]] <<SCINOT>> (mbar)  [[CavityVacuumComment]] <<COMMENT>> |
| 4 | Record Dewar helium bath liquid level and baratron pressure.  (29+/-0.1) Torr corresponds to about 2.07K. | [[DewarLHeLevelcm]] <<FLOAT>>(cm)  [[DewarPressureTorr]] <<FLOAT>>(Torr) |
| 5 | At 2.07K measure key HOM frequencies and QL per HOM Test Procedure. |  |
|  | Upload Excel file with HOMs measurement data at 2.07K using file name as CavID\_ HOM survey dd-mmm-yy.xls and CavID\_ HOM processed\_dd-mmm-yy.xlsx | [[HOMsfile]] <<FILEUPLOAD>> |
|  | Notes on HOM measurements- record information about HOM measurements, performances, limitations and other observations. | [[HOMsComment]] <<COMMENT>> |
| 6 | Cavity meets QL for HOM couplers as specified in HOM Test Procedure and GUIDE\_HOM\_Q\_Acceptance\_Criteria as listed in the Excel template CavID HOM Survey DD-MM-YYYY TEMPLATE.xls. If not, launch NCR. | [[CavityMeetsHOMsSpecifications]] <<YESNO>> |
| 7 | Inform the HOM checkers once the HOM QL measurements are completed. | [[InformHOMsCheckers]] {{reece}} <<HOLDPOINT>> |