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| Traveler Title | VTA RF Cavity Test Plan  |
| Traveler Abstract | Test Plan / Request for testing of cavities in the Vertical Test Area (VTA) |
| Traveler ID | VTA-CAV-TSTP  |
| Traveler Revision  | R1 |
| Traveler Author | K. Davis |
| Traveler Date | 31-July-2023 |
| NCR Emails | JTKent, POwen, KDavis |
| Approval Names | K. Davis | J. Kent | P. Owen | A. 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. |
| [VTA SOP](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-48111/A-09-001-SOP-21542%5B1%5D.pdf) | Theory and practice of cavity RF test systems |  |  |  |
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| Revision Note |  |
| R1 | Initial release of this Traveler. |

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| **To Be Completed by Primary Investigator (Submission)** |
| **VTA Test PLAN for cavities tested in Dewar 3 to 8** |
| *Select the Project Abbreviation / Charge Code from list.* [[PROJSN]] <<PROJSN>>*If project code not found enter NEW code in the text box below.*[[ProjName]] <<TEXT>> | [[PrincipalInvestigator]] <<SRF>>[[automate name of PI to session username]] <<NOTE>> | Description of VTA Tests:(e.g. Q vs E test of C100R cavities at 1497 MHz and up a maximum admin limit cavity gradient of 27 MV/m. The cavity will be tested conform procedure C100R-PR-VTA-CAV-VTRF-R2. Specify in VTA test plan Description: Cavity type ( elliptic, spoke, and so on), Pi mode frequency, Dewar preference, magnetic requirements, testing temperature(s), if HOM survey, OST data are needed )[[VTATestDescription]] <<FILEUPLOAD>> | **NEUTRON RADIATION VERIFICATION:** Does these VTA test have the potential to generate neutron radiation? [[NeutronRadiation]] <<YESNO>>If Yes, attach a detailed analysis[[NeutronRadiationAnalysis]] <<FILEUPLOAD>>[[NeutronRadiationComment]] <<COMMENT>> | **SAFETY AND WORK CONTROL DOCUMENTATION**Upload Documentation NOT referenced on Title Page of this traveler (i.e. Page 0)[[WorkControlDocuments]] <<FILEUPLOAD>> |
| **VTA Test PLAN for cryo tests done in Dewar 1 and 2** |
| *Select the Project Abbreviation / Charge Code from list.* [[PROJSN]] <<PROJSN>>*If project code not found enter NEW code in the text box below.*[[ProjName]] <<TEXT>> | [[PrincipalInvestigator]] <<SRF>>[[automate name of PI to session username]] <<NOTE>> | Description of VTA Tests:(e.g. RRR, third harmonic… )[[VTATestDescription]] <<FILEUPLOAD>> | **SAFETY AND WORK CONTROL DOCUMENTATION**Upload Documentation NOT referenced on Title Page of this traveler (i.e. Page 0)[[WorkControlDocuments]] <<FILEUPLOAD>> |

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| **To Be Completed by VTA Facility Manager (Review)** |
| **REVIEW** |
| [[VTATestReviewCoord]] {{KDAVIS,JKENT,DANNY?}} <<SELECT>>[[VTATestReviewDate]] <<TIMESTAMP>>[[auto fill review coord name to session username and autofill today date]] <<NOTE>> | [[TPReviewComments]] <<COMMENT>> |
| **RETURN** | **APPROVED** |
| [[TPStatusReturn]] {{RETURN,APPROVE}} <<RADIO>>[[TPReturnedComments]] <<COMMENT>> | [[TPStatusApproved]] <<YESNO>>[[TPApprovedComments]] <<COMMENT>>[[Rename TPStatus2 to TPStatus to link up with previously set radio]] <<NOTE>> |
| *IF Test Plan is Returned, then an email of the request will be sent to the Primary Investigator* [[TPReturnEmail]] {{PrincipalInvestigator}} <<EMAIL>>[[TPReturnEmail]] {{VTA Test Plan Returned}} <<EMAILSUBJ>>[[Only email Principal Investigator if the TPReturned box is checked; substitute name in data file]] <<NOTE>> | [[TestCoordinator]] {{KDAVIS,JTKENT,POWEN,TGOODMAN,BOOKWALT }} <<SELECT>>*IF Test Plan is Approved, then an email of the request will be sent to the VTA Test Coordinators* [[TPApprovedEmail]] {{KDAVIS,JTKENT,POWEN,TGOODMAN,BOOKWALT }} <<EMAIL>>[[TPApprovedEmail]] {{VTA Test Plan Approved}} <<EMAILSUBJ>>[[Only email if the TPStatusApproved is YES; substitute name in data file]] <<NOTE>> |
| *Upload the approved VTA TP in Docushare using identification e.g. VTATestPlanC100R*[UploadApprovedTPinDocushare]] {{KDAVIS, JTKENT,POWEN,BOOKWALT }} <<HOLDPOINT>> |
| [[Close traveler]] <<YESNO>> |