|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Traveler Title | ER5C Cavity Field Probe Feedthrough Cold Shock | | | |
| Traveler Abstract | This traveler provides the necessary steps to perform cold shock on ER5C (C20, C50, C75) cavity field probe feedthroughs. | | | |
| Traveler ID | ER5C-VTA-FPFT-CSHK | | | |
| Traveler Revision | R1 | | | |
| Traveler Author | L. Zhao | | | |
| Traveler Date | 31-Jan-25 | | | |
| NCR Informative Emails | jtkent,areilly,overtonr | | | |
| NCR Dispositioners | lzhao,forehand,weaksmc | | | |
| D3 Emails | jtkent,lzhao,forehand,weaksmc,areilly,overtonr | | | |
| Approval Names | L. Zhao | J. Kent | K. Davis | A. Reilly |
| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author | Reviewer 1 | Reviewer 2 | Project Representative |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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. | | | |
| [11151-0033\_Cavity pair assembly probe assembly\_RevA](https://misportal.jlab.org/jlabDocs/documents/versions/7275/download) | [JL0170822 C75 CAVITY FIELD PROBE](https://misportal.jlab.org/jlabDocs/documents/versions/205675/download) | [CeramTec Drawing Q464641 RevA](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-295412/Q464641S.pdf) |  |  |

|  |  |
| --- | --- |
| Revision Note |  |
| R1 | Initial release of this traveler. |

|  |  |  |
| --- | --- | --- |
| Step No. | Instructions | Data Input |
| 1 | This step is Step 3 in the inspection traveler ER5C-INSP-FPFT.    Record the serial number of the feedthrough.  Enter the operator name and date.  Cold Shock the feedthrough:   * Perform in VTA * Place in a stainless steel basket suspended in test stand. Wire-tie (or use other methods to properly secure) each feedthru to the basket. * Cool-down to 4K using standard cool-down rate, approx. room-temp to 4K in one hour. * Fill the dewar enough to make sure that the feedthru is covered in liquid. * Warm to room temperature; repeat 2 additional times for a total of 3 cycles.   Provide comments and/or files if the cool down procedure was unsusual.  Alternatively, the cold shock may be performed by CMA group using liquid nitrogen, if VTA cold shock is not available within required time frame. Make a note in the comment box if cold shock is performed with liquid nitrogen.  When the cold cycle is done, pass the feedthroughs to CMA group for post-cold shock leak check. | [[FPFTSN]] <<FPFTSN>>  [[ColdShockTech]] <<SRF>>  [[ColdShockDate]] <<TIMESTAMP>>  [[ColdShockComments]] <<COMMENT>>  [[VTAFiles]] <<FILEUPLOAD>> |