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| Traveler Title | C100R Field Probe Feedthrough Inspection Traveler | | | |
| Traveler Abstract | Incoming inspection, leak test, and cold shocking of the field probe feedthroughs. | | | |
| Traveler ID | C100R- INSP-FPFT | | | |
| Traveler Revision | R1 | | | |
| Traveler Author | Liang Zhao | | | |
| Traveler Date | 6-Mar-23 | | | |
| NCR Informative Emails |  | | | |
| NCR Dispositioners |  | | | |
| D3 Emails |  | | | |
| Approval Names |  |  |  |  |
| 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. | | | |
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| Revision Note |  |
| R1 | Initial release of this Traveler. |

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| Step No. | Instructions | Data Input |
| 1 | A random sampling of 10% of the field probe feedthroughs shall be visually inspected, leak tested, cold shocked and leak tested again to qualify the batch.  If any feedthroughs fail, a larger percentage of the batch may be inspected.  Enter the field probe feedthrough serial number into this traveler. | [[FPFTSN]] <<FPFTSN>>  [[DateTravelerStarted]] <<TIMESTAMP>> |
| 2 | Visually inspect the feedthrough looking for any scratches in the metal seal surface groove. Put the feedthrough up to a cavity mating flange and ensure the bolt pattern is correct. Make sure the N-Type electrical connections have no damage or are not loose. | [[VisualInspectionComments]]<<COMMENT>>  [[PassVisual]] <<YESNO>>  [[FPInspection]] <<SRF>> |
| 3 | Leak test the feedthrough to 2e-10 std. cc of He/Sec. | [[PassLeakTestPreColdShock]] <<YESNO>>  [[PreLeakTestedBy]] <<SRF>> |

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| **Step No** | **Instructions** | **Data Inputs** |
| 4 | Cold Shock the feedthrough.  Perform in VTA  Place in a stainless steel basket suspended in test stand. Wire-tie 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. | [[ColdShockComments]] <<COMMENT>>  [[ColdShockComplete]] <<SRF>>  [[ColdShockDate]] <<TIMESTAMP>> |
| 5 | Leak test the feedthrough after cold shock to 2e-10 std. cc of He/Sec. | [[PassLeakTestPostColdShock]] <<YESNO>>  [[PostLeaktestedBy]] <<SRF>> |