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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 VTAPlace 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>> |