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| Traveler Title | JLEIC crab cavity thickness measurement | | | |
| Traveler Abstract | This Traveler collects data from thickness measurement of JLEIC crab cavities | | | |
| Traveler ID | SRFRD-CHEM-CAV-THK-JLEIC | | | |
| Traveler Revision | R1 | | | |
| Traveler Author | S. De Silva | | | |
| Traveler Date | 28-Sep-22 | | | |
| NCR Informative Emails | forehand,kdavis,rarimmer | | | |
| NCR Dispositioners | Ashleya,sdesilva | | | |
| D3 Emails | Ashleya,kdavis,forehand,sdesilva,rarimmer | | | |
| Approval Names | S. De Silva | A. Mitchell | R. Rimmer |  |
| 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. | | | |
| [CP-STP-CAV-CHEM-THKN-R2](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-132918/CP-STP-CAV-CHEM-THKN-R2.pdf) |  |  |  |  |
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| Revision Note |  |
| R1 | Initial release of this Traveler. Copied From [TRAV ID]. Author [AUTHOR] |

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| Step No. | Instructions | Data Input |
| 1 | Enter cavity SN as JLEIC\_CRAB of the cavity to be measured. | [[CAVSN]] <<CAVSN>> |
| 2 | If this is the first measurement on the cavity, mark 6 measuring locations as shown in picture below:  C:\Users\sdesilva\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\621CA795.tmp  Check the accuracy of the ultrasonic measuring probe by measuring a calibrated Nb piece and calibrate if necessary. | [[ProbeCheckedOK]] <<YESNO>> |
| 3 | Take 4 data points for each location and record in Excel spreadsheet. If a data point is a clear outlier when measuring a location, please delete it and re-measure that data point.  Calculate the average thickness and standard deviation for each location.  Calculate the average thickness and standard deviation for each **cell** in mm and enter values.  Upload the Excel spreadsheet with all the data | [[ThicknessData]] <<FILEUPLOAD>>  [[AvgFPCBeamTubeThk]] <<FLOAT>> mm  [[AvgThkCell1]] <<FLOAT>> mm  [[StDevAvgThkCell1]] <<FLOAT>> mm  [[AvgThkCell2]] <<FLOAT>> mm  [[StDevAvgThkCell2]] <<FLOAT>> mm  [[AvgThkCell3]] <<FLOAT>> mm  [[StDevAvgThkCell3]] <<FLOAT>> mm  [[AvgThkCell4]] <<FLOAT>> mm  [[StDevAvgThkCell4]] <<FLOAT>> mm  [[AvgThkCell5]] <<FLOAT>> mm  [[StDevAvgThkCell5]] <<FLOAT>> mm  [[AvgHOMBeamTubeThk]] <<FLOAT>> mm |
| 4 | Select which processing steps occurred since the last thickness measurement was taken (add comment with steps if other).  Expected removal:  POLISHED = Surface polishing to remove dents and pits on the inner surface  BCP1 = 120 microns  BCP2 = 30 microns | [[PriorProcessingStep]] {{POLISHED,BCP1,BCP2,Other}} <<SELECT>>  [[PriorProcessingComment]] <<COMMENT>> |
| 5 | Clean any glycerin residue from the cells and take cavity to the next workcenter | [[DateTimeComplete]] <<TIMESTAMP>>  [[CompletedBy]] <<SRF>> |