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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.tmpCheck 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 surfaceBCP1 = 120 micronsBCP2 = 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>> |