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| Traveler Title | JLEIC Crab Cavity Buffered Chemical Polish Traveler | | | |
| Traveler Abstract | This document captures the data generated from a Buffered Chemical Polish executed in the Closed Chemistry Cabinet. | | | |
| Traveler ID | SRFRD-CHEM-CAV-BCP-JLEIC | | | |
| Traveler Revision | R1 | | | |
| Traveler Author | Ashley Mitchell | | | |
| Traveler Date | 20-Jul-22 | | | |
| NCR Informative Emails | forehand,kdavis,ganey | | | |
| NCR Dispositioners | ashleya,huque,dhakal,edaly | | | |
| D3 Emails | ashleya,huque,dhakal,edaly,kdavis,ganey | | | |
| Approval Names | Ashley Mitchell | River Fiedler | Ed Daly |  |
| 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-BCP (Standard Buffered Chemical Polish Procedure)](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-126264/CP-STP-CAV-CHEM-BCP-R3.pdf) | [CP-STP-CAV-CHEM-DEGR (Standard Cavity, Components, or Parts Degreasing Procedure)](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-132364/CP-STP-CAV-CHEM-DEGR-R3.pdf) |  |  |  |
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| Revision Note |  |
| R1 | Initial release of this Traveler. |

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| Step No. | Instructions | Data Input |
| 1 | Record Cavity ID as JLEIC\_CRAB.  If for any reason process of this cavity is stopped due to a question or problem select the Help Request toggle. This will trigger a red status on the traveler dashboard showing a work stoppage. When the problem is resolved unselect the toggle to continue process.  Create D3 to document activities requiring Help Request. | [[CAVSN]] <<CAVSN>>  [[Tanked]]<<YESNO>>  [[HelpRequest]] <<YESNO>> |
| 2 | Record Lead Operator and Date/Time.  Include any additional operators or notes in the comments. | [[Operator]] <<SRF>>  [[TimeAndDate]] <<TIMESTAMP>>  [[OperatorComments]]<<COMMENT>> |
| 3 | Insert caged cavity into chemistry cabinet and connect all chemistry lines.  Perform a water leak test  Check process lines for visual leaks | [[Cage]]<<COMMENT>>  [[WaterLeakTest]] <<CHECKBOX>>  [[VisualLeakTest]] <<CHECKBOX>> |
| 4 | Attach In Situ Transducer for thickness measurement and note placement | [[InSituAPlaced]] <<CHECKBOX>>  [[InSituALocation]]<<COMMENT>>  [[InSituBPlaced]] <<CHECKBOX>>  [[InSituBLocation]]<<COMMENT>>  [[InSituCPlaced]] <<CHECKBOX>>  [[InSituCLocation]]<<COMMENT>>  [[InSituDPlaced]] <<CHECKBOX>>  [[InSituDLocation]]<<COMMENT>>  [[InSituTransducerComments]]<<COMMENT>> |
| 5 | How many times has the acid been used? | [[Aciduse]] <<FLOAT>>Use |
|  | Recorded information from Chemistry Log Book: |  |
| 6 | Polish Time & Flow | [[PolishTime]] <<FLOAT>>  [[PolishFlow]] <<FLOAT>> |
| 7 | Process Time & Flow | [[ProcessTime]] <<FLOAT>>  [[ProcessFlow]] <<FLOAT>> |
| 8 | Sump Temperature & Level | [[SumpTemperature]] <<FLOAT>>°C  [[SumpLevel]] <<FLOAT>> |
| 9 | Drain Delay Time | [[DrainDelay]] <<FLOAT>>seconds |
| 10 | Rinse Time | [[RinseTime]] <<FLOAT>>minutes |
| 11 | Number of Fill & Dumps | [[NumberFillandDumps]] <<FLOAT>> |
| 12 | pH | [[pH]] <<FLOAT>> |
| 13 | Hot Rinse Time | [[HotRinseTime]] <<FLOAT>>mins |
| 14 | Other variables if necessary | [[OtherVariablesorComments]]<<COMMENT>> |
| 15 | Upload Acid Usage Excel File: [Acid Use and Etch Rate](https://jlabdoc.jlab.org/docushare/dsweb/View/Collection-29993) | [[AttachDataFile]] <<FILEUPLOAD>>  [[Comments]]<<COMMENT>> |
| 16 | Data From Acid Usage Excel File: |  |
| 17 | Etch Rate  Microns removed | [[EtchRate]]<<FLOAT>>µm/min  [[Removal]]<<FLOAT>>µm |