|  |  |
| --- | --- |
| 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 |  |

|  |  |
| --- | --- |
| 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) |  |  |  |
|  |  |  |  |  |

|  |  |
| --- | --- |
| Revision Note |  |
| R1 | Initial release of this Traveler. |

|  |  |  |
| --- | --- | --- |
| 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 testCheck 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 RateMicrons removed | [[EtchRate]]<<FLOAT>>µm/min[[Removal]]<<FLOAT>>µm |