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| Traveler Title | L2HE Cavity Ultrasonic Cleaning |
| Traveler Abstract | This Traveler captures information for external clean and USC of L2HE cavities. |
| Traveler ID | L2HE-CHEM-CAV-USC |
| Traveler Revision  | R2 |
| Traveler Author | A. Grabowski |
| Traveler Date | 19-Dec-22 |
| NCR Informative Emails | forehand, |
| NCR Dispositioners | ganey,hannesv,ashleya,adamg |
| D3 Emails | ganey,adamg,ashleya,hannesv,wildeson |
| Approval Names | T. Ganey | A. Mitchell | A. Wildeson | M. Bevins |
| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author | Reviewer | 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-C75-CAV-CHEM-USC-R2](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-212978/CP-C75-CAV-CHEM-USC-R1.pdf)Cavity degreasing procedure | L2HE-PR-CHEM-CAV-DEGR, Cavity Degreasing Procedure |  |  |  |
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| Revision Note |  |
| R1 | Initial release of this Traveler. |
| R2 | Added timestamp to step 1. Added new step 2: checkbox for cavity under vacuum, instructions based on cavity vacuum status |
| R3 | Added to step 2: RAV tape |

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| Step No. | Instructions | Data Input |
| 1 | Record Cavity ID.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. | [[L2HE\_CAVSN]] <<CAVSN>>[[L2HE\_CleanDate]] <<TIMESTAMP>>[[HelpRequest]] <<YESNO>> |
| 2 | Is the cavity under vacuum?* YES: If the cavity is under vacuum, clean the external surface of the cavity in accordance with L2HE-PR-CHEM-CAV-DEGR. **Do not** vent the cavity. **Do not** perform the remaining steps of this traveler.
* After cleaning: Add red tape to RAV
* NO: If the cavity is not under vacuum, perform the remaining steps of this traveler.
 | [[CavityUnderVaccum]] {{YES,NO}} <<SELECT>>[[If YES is selected for CavityUnderVacuum, then disable the fields in steps 3 - 6.]] <<NOTE>> |
| 3 | What stage of processing is this degreasing for?Add comments as necessary. | [[Degreasing\_Step]] {{PreHeatTreat,PostEP,PreFlangeBCP,PostFlangeBCP,PreHPR}} <<RADIO>>[[DegreaseStepComment]] <<COMMENT>> |
| 4 | Inspect all cavity flanges for scratches and or other abnormalities. Record comments as necessary. | [[FlangesInspected]] <<YESNO>>[[Inspector]] <<SRFCVP>>[[InspectionTimestamp]] <<TIMESTAMP>>[[FlangeNotes]] <<COMMENT>> |
| 5 | Degrease cavity as per the [cavity degreasing procedure.](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-237051/CP-C75-CHEM-CAV-USC-R2.pdf)Add comments as necessary.  | [[DegreaseComment]] <<COMMENT>> |
| 5a.  | Detergent USC: Record the date and time (minutes) the cavity was USC'd.Record the temperature (F) of the bath. | [[DetergentTIMESTAMP]] <<TIMESTAMP>>[[DetergentUSC\_Time]] <<INTEGER>>[[DetergentUSC\_H20Temp\_F]] <<INTEGER>>[[Detergent\_USC\_Tech]] <<SRFCVP>> |
| 5b. | DI water only USC:Record the date time (minutes) the cavity was USC'd.Record the temperature (F) of the bath. | [[WaterOnlyTIMESTAMP]] <<TIMESTAMP>>[[WaterOnly\_Time]] <<INTEGER>>[[WaterOnly\_H20Temp\_F]] <<INTEGER>>[[WaterOnly\_USC\_Tech]] <<SRFCVP>> |
| 6 | Cavity ready for next stage of processing. Notify appropriate personnel. |  |