**ESS Tuning Dump Screen System**

**Dismantling Check Procedure**

**Document Change Record**

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| --- | --- | --- | --- |
| Version | Date | Section/Sheet | Comment |
| 1.0 | 22/10/19 |  | First Issue |

**Document Purpose**

This document defines the dismantling procedure for the ESS tuning dump vessel after testing. This check procedure is not exhaustive, but covers the main tasks involved in dismantling the dump vessel.

This document should be printed and completed by hand during assembly. Once completed with all signatures, a scanned copy should be sent to the project manager for storage in the document management system.

**Unit**

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| Module name: |  |

**Approval**

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| Assembled | Print | Signature | Date |
| Approved | Print | Signature | Date |

P**rocedure:**

This is a generic dismantling procedure for ESS tuning dump vessel and associated components. Please feel free to adjust the procedure as per requirement when carrying out the tasks described here.

Step 1-3 should be carried out before test day while step 4 and onward should be carried out on test day.

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| **Step** | **Task – Pressurisation of vessel** | **Initial / Date** |
|  | Once testing of vessel and associated components is finished, re-pressurise the vessel to atmospheric pressure by turning VAT valve on and injecting Nitrogen. |  |

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| **Step** | **Task – Remove Screens and frame** | **Initial / Date** |
|  | Remove all electrical connection to stepper motor and limit switches after turning electricity supply off. |  |
|  | Remove M10 screws from top DN350 flange. Lift top flange using eyebolts ensuring that it is removed slowly and carefully such that the screen frame inside the vessel do not hit the internal walls of the vessel. |  |
|  | Close the top of the vessel immediately by aluminium foil to stop dust and particulates entering the vessel. |  |
|  | Once the screens are fully out of the vessel, remove the screens from the frame by removing the mounting bolts for screens.  This is to be done by Greyson Christoforo. |  |
|  | Remove the rectangular section of the frame by unscrewing the bolt in place. Ensure that the central rod of the frame still stays assembled to the actuator top flange. |  |

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| **Step** | **Task – Actuator removal** | **Initial / Date** |
|  | Dismantle actuator from top flange by removing M8 screws at the fixed flange end of the actuator. |  |
|  | Slide the actuator out by moving the central rod on bearing guide assembly ensuring rod still stays intact with actuator. |  |
|  | Seal both end of actuator using plastic caps provided. Pack the actuator in its box along with central rod, limit switch and top DN63 flange, all fully assembled to actuator. |  |

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| **Step** | **Task – Vessel Dismantling** | **Initial / Date** |
|  | Assemble the vessel top flange back on vessel using M10 screws and seal the vessel using a standard DN63 blank flange. |  |
|  | Lift the vessel from the test stand and pack it in its box. |  |

**Continuation Sheet:**

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| **Step Number** | **Comment** |
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