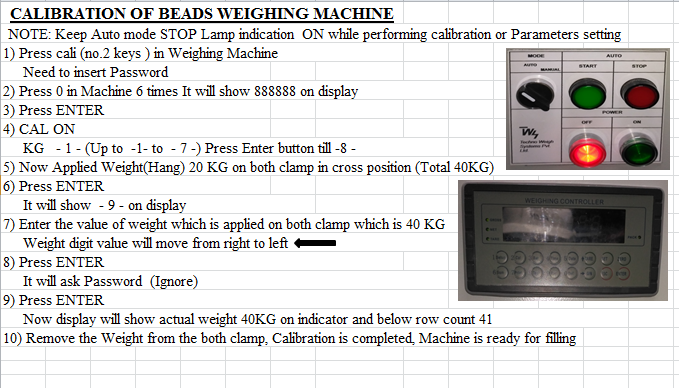
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|  | **SOP for Invensys DCS start and shutdown** | **VVF India Ltd.** |
| **Make:** M/s Schneider Electric ( Invensys) | | |
| **Place:** VVF India Ltd, Baddi-Himachal Pradesh-Dist: Solan | | |
| **DCS Details:** CP60 IA version 6.3 Unix based OS | | |

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| **Shutdown Activity for DCS:** | |
| 1. Click change Environment ( **Change Env**) 2. Select software mode and put passwords: 3. Select **Shutdown ok** 4. Password: **Safety** 5. Then it enter to DCS command mode and ask for Root password for system maintenance 6. Root Password**: gnomes** 7. Then write “**halt**” command in front of A1WP-02# or A1AW-01# as per operator work station or engineering station. 8. Wait until following massage appears (**Program terminated).** 9. Switch off AW/WP 10. Switch of MCB in Power JB of System/ AI/ DI/ DO and UPS output. | |
| **Startup Activity for DCS:** | |
| 1. Switch On Power JB MCB- UPS output/ DO/DI/ AI/ System 2. Check utility voltage 220 VAC and control voltage 24 VDC in panel. 3. After satisfactory voltage in panel switch on AW and WP & wait for Fox view screen 4. Click change Environment ( **Change Env**) 5. Password: **vvf** 6. Click on system 7. Check system time if it is not matching with actual time then set time. 8. Click refresh. | |
| **Note:** | 21/1/2017 Rev0 |
| **Date:** |  |

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|  | **SOP to clear History in case of nonfunctioning of Trends** | **VVF India Ltd.** |
| **Make:** M/s Schneider Electric ( Invensys) | | |
| **Place:** VVF India Ltd, Baddi-Himachal Pradesh-Dist: Solan | | |
| **DCS Details:** CP60 IA version 6.3 Unix based OS | | |

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| There will 3 possibilities for that,   * Historian Instance and collector are in off condition. * Storage space must be filled, As it is old system hard disk for same is having very low storage capacity around 10 GB only. * License is not updated. | |
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| In case of Historian Instance and collector are in off condition.  Carry out following activities   1. Go to software Login of DCS and go to historian Manager, below window will open.   cid:image006.jpg@01CFD4D9.78AB2EB0  Now go to Instance and collector and on both, If it is already on then do on /off for refresh.  .  cid:image007.jpg@01CFD4D9.78AB2EB0  Now go to Communications and check RTP and Massage file updates or not it should update within 2-3 minutes  cid:image008.jpg@01CFD4D9.78AB2EB0  Even though if it is not updates then Check storage capacity clear all files in v1hist folder.  Every month we need to clear all this files as storage capacity of this old system is very less. | |
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| **Note:** |  |
| **Date:** | 21/1/2017 Rev0 |



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|  | **Guidelines for Bitumin Tanker filling operation & trouble shooting** | **VVF India Ltd.** |

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| **For Plant: VVF Ltd., Sewri—Bitumin Tank Automation** | |
| **ON Off valve**--- Tanker filling valve is malfunctioned due to following reasons | |
| 1. Closing of jacketed steam of valve & lines:  * In any case don’t close valve, line jacketed steam. * Don’t try to open valve forcefully by excess of air and manual force, as it may damage valve seat lining and reduce valve life. * Always flush tanker loading line.  1. Valve failure due to wiring opened or due  lose contact.  * Keep wiring diagram in Flow totalizer Junction box. * In case of not getting 230 VAC voltage at coil side, check for fuse at power JB side and check for wiring of totalizer against  wiring diagram. * Check for coil resistance which will fall in between 100-300 ohm, in case of coil failure it will show infinity.  1. Don’t Keep totalizer set point to zero   In this case valve will not open, as totalizer will think it is already achieved set point | |
| **Mass flow meter:**   * Mass flow working with acceptable error of 30-50 kg per tanker that means 0.1 to 0.3% accuracy. * When there is error of above 150-250 kg at that point mass flow meter is showing alarm of dual phase, which can be seen on transmitter indication yellow blinking of light. * Don’t do any changes for same. * For same consistent error of below 100 kg we can manipulate set point for more accurate filling. | |
| **Note:** | 31/3/2017 Rev0 |
| **Date:** |  |