| MIDASTEST | Program | | Documentation | | |
| | Revision Date | Revision Name | User Manual (TTS-CC-117.2) | Verification Manual (TTS-CC-117.3) | Revision Description |
|---|---|---|---|---|---|
| Rev. | | | Rev. | Rev. | |
| 0 | 11/14/2002 19:29:00 Build 1.0 | 2002.318 | 0, 1 | 0 | Original issue |
| 1 | 10/31/2003 8:17:52 AM Build 2.0 | 2003.304 | 2 | 1 | Added the following new general input parameters:<br>PRE-TEST INFORMATION Terms<br>As-Found Test Exclusion Justification (memo)<br>As-Left Close Stem Factor Applicable (Y/N)<br>As-Left Open Stem Factor Applicable (Y/N)<br>Maximum Running Load (value)<br>As-Left Test Required (Y/N)<br>New Baseline Test Required (Y/N)<br>Valve Condition Load Evaluation Required (Y/N)<br>DATA REVIEW Terms<br>Test Date<br>LIMIT SWITCH SETTINGS Terms<br>Probe A Contact<br>Probe A Location<br>Probe B Contact<br>Probe B Location<br>Probe C Contact<br>Probe C Location<br>Probe D Contact<br>Probe D Location<br>Added MOV Test Report to Print reports.<br>Added Trending Overdue to Print reports.<br>Added Test of Record Datasheet to Print reports.<br>Added Failure History to Print reports.<br>Added Tables to menu bar / with Design Data, Pre-Test Information, Data Review, Trending, History and Failure History Tables.<br>Added Help Topics (F1) Function Capability.<br>Added Tools to menu bar / with Export to Excel feature.<br>Added the Details sub-panel to Control Circuit Changes Panel<br>Revised the Pre-Test Setup Panel to combine 2 radio buttons, Required Packing Gland Torque and Packing Adjustment Based on Running Load, into a single radio button, Maximum Packing Gland Torque and Running Load Range.<br>Revised the Thrust2 Data Panel to include an Import Thrust2 Button.<br>Added Import Thrust2 Spring Pack Data Panel.<br>Criteria Applicable radio buttons.<br>Added the Switch Probes sub-panel to Limit Switch Settings Panel.<br>Revised the Data Review As-Found Panel to include Hard Seat C11 applicable data.<br>Revised the Data Review As-Left Panel to include Hard Seat C11 applicable data.<br>Revised Trending Panel to include additional guidance labels: Current Test Data→, Previous Test Data→ (Highlight Row to Select), NOTE: Previous Test NOT Selected. |

# PROGRAM MIDASTEST REVISION HISTORY

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| Rev. | | | Rev. | Rev. | |
| | | | | | Revised Custom Valve Filter Panel sub-panels from Custom and Margins to Maintenance and Design. Revised Status labels from: Legacy, Pre-Test, Review, Trending, and Complete, to: Legacy, Pre-Test, Ready for Test, Ready for Engineering, and Complete |
| 2 | 2/13/2005 15:55:18 Build 3.0 | 2005.44 | 3 | 2 | Added the following new input parameters: <br>     DESIGN DATA Terms <br>     Hub Torque (value) <br>     Expected Thrust Variability (value) <br>     Expected Thrust Variability @VLV (value) <br>     Expected Thrust Variability @ACT (value) <br>     PRE-TEST INFORMATION Terms <br>     Running Load Criteria Selection Basis (text) <br>     Maximum Handwheel Run Torque (value) <br>     IMPORTED TEST DATA Terms <br>     Close Handwheel Running Torque (ft-lbs) (value) <br>     Open Handwheel Running Torque (ft-lbs) (value) <br>     TRENDING Terms <br>     NCC Disposition for Pullout Load High? (Y/N) <br>     NCC Disposition for Run Load High? (Y/N) <br>     NCC Disposition for Stem Factor High? (Y/N) <br>     NCC Disposition for VCL High? (Y/N) <br>     TEST DATA UPDATE Terms <br>     Baseline Test Method (text) <br>     As-Left Running Torque (close) <br>     As-Left Running Torque (open) <br>     As-Left Running Thrust (close) <br>     As-Left Running Thrust (open) <br>     Running Load Criteria Selection Basis (text) <br> Added the following new output parameters: <br>     TRENDING Terms <br>     Thrust Change @C14 (AL-AF) <br>     Thrust Change @O9 (AL-AF) <br>     PM Thrust Change @C14 (AL-AF) <br>     PM Thrust Change @O9 (AL-AF) <br>     Run Thrust Change (AL-AF) <br>     PM Run Thrust Change (AL-AF) <br>     Torque Change @C14 (AL-AF) <br>     Torque Change @O9 (AL-AF) <br>     PM Torque Change @C14 (AL-AF) <br>     PM Torque Change @O9 (AL-AF) <br>     Run Torque Change (AL-AF) <br>     PM Run Torque Change (AL-AF) <br> Added the Schedule Text Box to the Add New Work Order Panel <br> Added the Schedule Column to the Work Order Flex Grid on Main Panel <br>     Revised Valve Filter Panel to include BOP Valve Grouping |

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| **Rev.** | | | **Rev.** | **Rev.** | |
| | | | | | Revised Sensitivity Calculation Panel to remove the Custom Calibrator Option |
| | | | | | Revised the Pre-Test Setup Panel to include Running Load Criteria Selection Basis (Thrust, Torque or Handwheel) radio buttons and Maximum Handwheel Run Torque input box (appears when Handwheel selected). |
| | | | | | Revised the Pre-Test printout report to include the Running Load Criteria Selection Basis and Maximum Handwheel Run Torque data, where applicable. |
| | | | | | Revised the Data Review As-Found Data Panel to show "Contactor to Contactor Time", "Contactor Dropout Time" and "Handwheel Run Torque" for Close and Open Strokes. |
| | | | | | Revised the Data Review As-Left Data Panel to show "Contactor to Contactor Time", "Contactor Dropout Time" and "Handwheel Run Torque" for Close and Open Strokes. |
| | | | | | Revised the Data Review As-Found Data and As-Left Data Panels to change the "Stem Torque" column heading to just "Torque". |
| | | | | | Revised the Data Review printout report to include the Handwheel Run Torque data for open and close strokes. |
| | | | | | Revised Trending Data Panel to include a comparison of Total Thrust and Total Torque at C16 (Max) for As-Found and As-Left conditions. |
| | | | | | Revised Trending Evaluation Panel to include "NCC Dispositions?" (Run Load High, SF High, VCL High, or Pullout High) check boxes. |
| | | | | | Revised the Trending printout report to include a comparison of Total Thrust and Total Torque at C16 (Max) for As-Found and As-Left conditions and "NCC Dispositions?" (Run Load High, SF High, VCL High, or Pullout High) check boxes. |
| | | | | | Revised the Test of Record Datasheet printout report to include the Handwheel Run Torque data for open and close strokes. |
| | | | | | Revised the Export-to-Excel Panel to include Pre-Test Input & Output Data, Review Input & Output Data, and Trending Input & Output Data as available database fields. |
| | | | | | Revised the Export-to-Excel - Build SQL Statement Panel to include Pre-Test Input & Output Data, Review Input & Output Data, and Trending Input & Output Data as available database criteria parameters. |
| 3 | 12/20/2006 16:18:38 Build 4.0 | 2006.354 | 4 | 3 | Added the following new input parameters: PRE-TEST INFORMATION Terms As-Left Stem Factor (close) As-Left Stem Factor (open) VOTES Calibrator Custom Flag TESTDATA Terms TS Bypass Time (sec) (close) TS Bypass Time (sec) (open) TRENDING Terms NCC Disposition for MSTT High? Added the following new output parameters: PRE-TEST INFORMATION Terms |

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| Rev. | | | Rev. | Rev. | |
| | | | | | As-Left Stem Factor (close) (value) |
| | | | | | As-Left Stem Factor (open) (value) |
| | | | | | <u>REVIEW</u> Terms |
| | | | | | As-Found MSTT High Flag (close) (logic) |
| | | | | | As-Found MSTT High Flag (open) (logic) |
| | | | | | As-Left MSTT High Flag (close) (logic) |
| | | | | | As-Left MSTT High Flag (open) (logic) |
| | | | | | Added User Defined Valve Filter option |
| | | | | | Added User Defined Valve Filter Panel |
| | | | | | Added MOV Field Datasheet to Print reports |
| | | | | | Revised Sensitivity - Calibrator panel to include Threaded and Custom sub-panels |
| | | | | | Revised Pre-Test Setup – As-Left panel to include additional Stem Factor Criteria information for open & close strokes |
| | | | | | Revised Limit Switch Settings – Limit Switch panel to include four sub-panels, one for each rotor, 1 through 4 |
| | | | | | Revised Limit Switch Settings – Switch Probes panel to include four sub-panels, one for each probe, A through D |
| | | | | | Interlock, Auto Open, Auto Close and Special Case |
| | | | | | Revised Limit Switch Settings – Instructions panel to include five sub-panels, Special 1 to 5 |
| | | | | | Revised Data Review – As-Found Data panel to include TS Bypass Time and MSTT Time for open & close strokes |
| | | | | | Revised Data Review – As-Left Data panel to include TS Bypass Time and MSTT Time for open & close strokes |
| | | | | | Revised Data Review – Evaluations panel to include Stem T/T Time High for As Found/As-Left, open & close strokes |
| | | | | | Revised Trending – Evaluation panel to include check box for NCC Disposition for high MSTT |
| | | | | | Revised Import Test Data panel to include additional markers, Thread Transition Start (c3a & o4a) and Thread Transition End (c3b & o4b) |
| | | | | | Revised History panel to add double-click feature to activate editable test history panel |
| | | | | | Revised User privileges to include Test History, Failure History and Failure Delete privileges |
| 4 | 6/6/2008 3:53:52 PM Build 5.0 | 2008.158 | 5 | 4 | Added Figures 5 and 6 |
| | | | | | Added "Control+Delete" option to delete test work order |
| | | | | | Added the following new input parameters: |
| | | | | |    <u>PRE-TEST INFORMATION</u> Terms |
| | | | | | QSS Custom Thrust Sensitivity |
| | | | | | QSS Custom Torque Sensitivity |
| | | | | | ETT Custom Thrust Sensitivity |
| | | | | | ETT Custom Torque Sensitivity |
| | | | | | Sensitivity Notes |
| | | | | | Magnesium Rotor Inspection Required |
| | | | | |    <u>LIMIT SWITCH SETTINGS</u> Terms |
| | | | | | Instruction Memo |

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| Rev. | | | Rev. | Rev. | |
| | | | | | <u>DATA REVIEW</u> Terms<br>Magnesium Rotor Inspection Performed<br>Magnesium Rotor Inspection Results<br>Added Magnesium Rotor Inspection Results drop-down with selections, Acceptable, Degraded, Failed and N/A<br>Added Section 5.1.1, custom QSS sensitivity calculations validation<br>Added Section 5.1.2, custom ETT sensitivity calculations validation<br>Added Section 5.5, import function calculations validation<br>Revised Sensitivity Calculations Panel to include Notes sub-panel<br>Revised Sensitivity Calculations – QSS sub-panel to include Custom Sensitivity for QUIKLOOK, Thrust and Torque input terms<br>Revised Sensitivity Calculations – ETT sub-panel to include Custom Sensitivity for QUIKLOOK, Thrust and Torque input terms<br>Revised the Pre-Test - Setup (cont'd) sub-panel to include Magnesium Rotor Inspection Required? (Y/N)<br>Revised Control Switch Settings Panel to include Memo sub-panel<br>Revised the Data Review - Work Done sub-panel to include Magnesium Rotor Inspection check box and Inspection Results with drop-down<br>Revised the Failure History Report Dates Panel to include valve filter radio buttons for All Valves, GL96-05 and BOP<br>Revised the Failure Type drop-down to include All<br>Revised the Design Data Table to consolidate the three sub-panels into one panel<br>Revised User privileges to include Delete Test Work Order privilege<br>Revised Help panel to show all sixteen user privileges<br>Revised Sensitivity Calculations Report to include Notes page and indicate if Custom Sensitivity<br>Revised the Pre-Test – Information Report to include Magnesium Rotor Inspection Required? (Y/N)<br>Revised Control Switch Settings Report to include Instruction Memo page<br>Revised the Data Review - Work Done Report to include Magnesium Rotor Inspection check box and Inspection Results<br>Updated Attachments 1 through 7 |

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