Application Modifications and Enhancements

HiCAMS and DOH Vendor Versions 7.2 were released Friday, 23 January 2009.

OVERVIEW OF THE RELEASE

The 7.2 release includes several significant enhancements to the system to improve Project Certification, Estimates, Independent Assurance, Field Inspection Reports and a new Contract Adjustment function to allow users to add line items to their contract.

CONTRACT MAINTENANCE - Review Contract Details

- A new grid has been added to the window to display the relationship between WBS Number, Federal Aid Number and TIP Number. Currently, the system supports a maximum of 4 TIP Numbers per WBS and Federal Aid Number combination.

- Also in the new grid is a column to indicate whether or not the WBS displayed has been merged.

- Existing contracts will have their data converted within the next two months. Contracts created in HiCAMS after the 7.2 release will immediately show the data relationship.

CONTRACT MAINTENANCE - Review WBS Details

- Added TIP Number to the grid display. If multiple TIP Numbers exist for a given WBS and Federal Aid Number combination, only the first will be displayed on this window. To see the complete list of TIP Numbers per WBS and Federal Aid Number combination, users should use the Review Contract Details window.

CONTRACT MAINTENANCE - Review Contract BOM

- The Check for Materials checkbox logic has been modified to reference the Contract Bill of Materials instead of the Master Bill of Materials to determine if materials are present on the Line Item. The three conditions that will cause the Check for Materials box to be checked are:

    1. if the LI is created from a Generic Master Pay Item -OR-

    2. if the LI is created from a Master Pay Item that requires a Supplemental Description -OR-

    3. if no materials are present on the Contract Bill of Materials

CONTRACT ADJUSTMENTS - Review Claims

- Corrected a problem in the application that sometimes caused processing errors if multiple users were working on claims simultaneously.

CONTRACT ADJUSTMENTS - Review Other Line Items

- This new module provides field users with the ability to create one or more standard line items on their contracts when applicable. Examples of standard line items that can be created are Final Surface Testing Incentives and Disincentives, Pipe Invert Elevation Adjustments, and Supplemental Field Surveying and Office Calculations.

- Additionally, Construction Unit personnel will now have the ability within HiCAMS to create contract line items for any purpose.

- Line items created through this new functionality will have a Contract Adjustment Type of "OTH".

- Existing "OTH" type records created by Help Desk personnel in the past are now visible in the Review Other Line Items module, and a history record of their creation has been established.

CONTRACT ADJUSTMENTS - Review Supplemental Agreements

- Corrected a problem with the Description field when extremely large volumes of text were entered. The field can now accept documents containing approximately 25,000 characters.

CONTRACT TRACKING - Review Tickets

- Moved the Station From (and Fraction) and Station To (and Fraction) fields from the Location tab to the main data entry grid on the General tab to facilitate data entry.

- Entry of the Station From and Station To fields is now required in order to save a new record. Ticket records entered prior to version 7.2 do not require values for those fields.

CONTRACT TRACKING - Review Pay Adjustments

- A new PAR Type has been created for **Asphalt Workmanship**. Field construction users entering a new PAR will now choose between the Asphalt Workmanship and Miscellaneous PAR types. The Pavement Construction Engineer and the Materials Operations Engineer will receive notifications when these PARs are forwarded and the Pavement Construction Engineer will subsequently Approve or Close the new Asphalt Workmanship PARs.

- Adjusted the system logic to allow users who can Approve a PAR to be able to update the quantity and percent fields on all PAR types.

- Modified the system to only allow the Pavement Construction Engineer to Approve or Close a QA-2B type PAR.

- A new Theoretical Percent field has been added to the grid of information about the PARs. This is a display only field, system calculated for QA-2B Pars according to the formula in Spec 610-13(c).

- For QA-2B PARs, the Theoretical Percent and Actual Percent will be calculated and displayed to one decimal precision, while other PARs remain at four decimal precision. The Actual Percent will initially be set to the Theoretical Percent, but may be modified. If the Actual Percent differs from the Theoretical Percent at the time the PAR is approved, a comment will be required.

CONTRACT TRACKING - Audit Materials

- Modified the system logic to include the new disposition quantity fields from the Sample Line Items tab, where applicable.

- Corrected a problem with the Notes field when extremely large volumes of text were entered. The field can now accept documents or typed entries containing nearly 32,000 characters.

CONTRACT ESTIMATES - Generate Estimate

- The system will now verify that all line items included in an estimate generation contain one or more materials unless the line item is marked as Labor Only on the Contract Bill of Materials. The warning

message in Generate Estimates will read "You are generating an estimate that contains one or more Non-Labor line items that have no materials assigned in CBOM. The CBOM Standard Report can be used to find and correct these items. Do you wish to run this report and correct these errors at this time?". Answering "No" will proceed with the estimate generation but will send a notification to the Records Section Specialist for the contract alerting them to the situation. Answering "Yes" will halt the estimate generation and automatically navigate to a customized version of the Contract Bill of Materials report showing those line items on the contract that should have materials on CBOM but do not.

- To eliminate the warning message, the user will have to navigate to the Contract Bill of Materials and add the necessary materials to the line items shown on the report. The warning message will not appear when generating an estimate if all non-labor only line items in CBOM have one or more materials on them.

CONTRACT ESTIMATES - Review Estimates

- A new tab called **Open Issues** has been added. Clicking on the tab will present the user with a list of outstanding issues for that contract at that point in time. A drop-down filter of the various areas the system checks is provided (e.g., PARs that haven't been closed, Samples and FIRs that haven't been disposed, Densities pending PARs and Claims that haven't been finalized), and double-click navigation to the data needing resolution facilitates investigation. The Open Issues tab will only be enabled for the most recent estimate, but clicking the Refresh button at any time will cause the system to re-examine the data in the system for that contract and present the current open issues.

- Additionally, on the new Open Issues tab, a split scroll function was added to the horizontal scrollbar at the bottom of the window. Placing the cursor in the lower left corner of the grid on the dark shadow area changes the cursor from an arrow to a split-scroll cursor. Dragging the cursor to the right will freeze the display to the left of vertical line shown as the mouse is moved. Releasing the mouse button activates the split screen. To remove the split, place the cursor again on the horizontal scroll bar at the dark shadow area where the split occurs and drag it all the way to the left of the grid.

- The final estimate edit to ensure all FIRs have been disposed of has been expanded to include Corrugated Metal Pipe.

WBS MAINTENANCE - Add WBS

- Added the 4 potential TIP Number fields to the grid display of WBS and Federal Aid Number. This is the window where authorized users may add or update TIP and/or Federal Aid Number information as well as adding a WBS to a contract when necessary.

DENSITY - Review Density Core/Tests

- A row number column has been added to the grid and a row count has been added to the bottom of the window to facilitate reviewing data on the window.

- A split scroll function was added to the horizontal scrollbar at the bottom of the window. Placing the cursor in the lower left corner of the grid on the dark shadow area changes the cursor from an arrow to a split-scroll cursor. Dragging the cursor to the right will freeze the display to the left of vertical line shown as the mouse is moved. Releasing the mouse button activates the split screen. To remove the split, place the cursor again on the horizontal scroll bar at the dark shadow area where the split occurs and drag it all the way to the left of the grid.

FIELD INSPECTION REPORTS (FIR) - General

- Corrected a problem that was preventing creation of a new FIR if a set of filter criteria returned no rows in a retrieve.

FIELD INSPECTION REPORTS (FIR) - Review Field Inspection Reports

- GUARDRAIL: Added Accepted and Rejected quantity fields to the Hardware tab and in the Hardware section of the report. In a future release, the system will be enhanced to use the data in these fields in Project Certification/Audit Materials.

- PRECAST CONCRETE: Modified system logic to automatically set the Alternate ID status to Rejected for those associated to a Precast Concrete FIR that is authorized as Does Not Meet Specs - Rejected. If the inspection result changed from DNMS-Rejected to any other status, all associated Alternate IDs in a Rejected status will be updated to Available status.

- STAY IN PLACE FORMS: Added the Unit of Measure description to the Accepted and Rejected Quantity fields on the General tab. The values entered on this tab are for the selected material, so the unit of measure description shown will be that of the selected material, not the line item unit of measure description.

- STRUCTURAL STEEL: Replaced the Quantity field with Accepted and Rejected quantity fields on the Hardware tab and in the Hardware section of the report. The existing quantity data was converted to the new Accepted and Rejected quantity fields based on the Pass/Fail value for each record. In a future release, the system will be enhanced to use the data in these fields in Project Certification/Audit Materials.

- STRUCTURAL STEEL: Added the Unit of Measure description to the Accepted and Rejected Quantity fields on the General tab. The values entered on this tab are for the selected material, so the unit of measure description shown will be that of the selected material, not the line item unit of measure description.

INDEPENDENT ASSURANCE - Review IA Correlations

- A new correlation type for the IA Aggregate Assessment Program has been added called Aggregate Program. This allows correlations to be made between IA Aggregate Program samples and QC test results pulled from the QAQC module, or QC test results entered directly into the correlation window when matching QC test results don't exist.

SAMPLING - Review Sample Details

- All contract specific samples will now require Represented, Accepted, Removed, and Pay Adjusted Quantity values to be entered at the line item level. If multiple line items are specified for the sample, the sum of the represented quantity for those line items must total the overall sample represented quantity on the General tab. The line item level quantities will be used on Project Certification calculations.

PROJECT CERTIFICATION - Review Project Certification

- Modified the system logic to include the new disposition quantity fields from the Sample Line Items tab, where applicable.

- Corrected a problem with the Notes field when extremely large volumes of text were entered. The field can now accept documents or typed entries containing nearly 32,000 characters.

QUERY TOOL

- GENERAL: Users can now save custom sort orders on public queries and have the system retain those values.

- FIELD INSPECTION REPORTS - GUARDRAIL: Added the new Hardware Accepted and Hardware Rejected quantity fields. Renamed the existing fields called Accepted Quantity and Rejected Quantity to Pay Items Accepted Quantity and Pay Items Rejected Quantity, respectively.

- FIELD INSPECTION REPORTS - STRUCTURAL STEEL: Added the new Hardware Accepted and Hardware Rejected quantity fields.

- PAR/PAY FACTORS: Added the new Theoretical Percent field.

- PAR/PAY FACTORS: Asphalt Workmanship has been added to the selection list of PAR Types.

- SAMPLES: Added the new Line Item Accepted, Pay Adjusted, Rejected and Represented Quantities and the Line Item Disposition Comment.

STANDARD REPORTS - Contract BOM Report

- A new checkbox filter parameter has been added for "Show Only Non-Labor Line Items with no materials". This option gives the user a quick way to list line items that need to have materials added to them.

- The report has been modified to show all line items selected instead of excluding those line items that don't have materials.

STANDARD REPORTS - IA Rating Counts by Contract

- Modified report to incorporate the new Aggregate Assessment Program correlation type.

STANDARD REPORTS - IA Rating Counts by Material

- Modified report to incorporate the new Aggregate Assessment Program correlation type.

STANDARD REPORTS - IA Rating Counts by Property

- Modified report to incorporate the new Aggregate Assessment Program correlation type.

STANDARD REPORTS - IA Type Counts by Contract

- Modified report to incorporate the new Aggregate Assessment Program correlation type.

TECHNICIAN - Review Class Registration

- A new "Copy From" feature has been added to the Registered Students tab. This feature provides a quick way to add the list of registered students from another class into the selected class.

TECHNICIAN - Review Class Enrollment

- The new scoring method option of Pass/Fail has been implemented. Tests that determine Pass/Fail based on numerical scores still function the same way, but now the system supports tests that are designated as a Pass/Fail scoring method. On these tests, the user has access to the Pass checkbox without the need to enter a numeric test score.

- Comments may now be entered at the Test level.

TECHNICIAN - Review Course Maintenance

- A new column has been added to the Tests tab to designate Scoring Method. A value of Numerical means the Passing Score value will be used to determine if a test result score passed or failed. A value of Pass/Fail means the test result will be evaluated as either Pass or Fail without the need for a numeric

score.

- Tests can now be ordered and then re-ordered as desired. Upon saving, the user will be given the option of synching the new test order with the related classes.

TECHNICIAN - Review Class Maintenance

- A new column has been added to the Tests tab to designate Scoring Method. A value of Numerical means the Passing Score value will be used to determine if a test result score passed or failed. A value of Pass/Fail means the test result will be evaluated as either Pass or Fail without the need for a numeric score. The test information is inherited from the Course Maintenance data but can be changed for the specific Class.

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