

Application Modifications and Enhancements

HiCAMS and DOH Vendor Versions 8.2 were released Friday, 19 August 2011

OVERVIEW OF THE RELEASE

HiCAMS Version 8.2 implements expansion of the Asphalt Mix Design and Job Mix Formula numbers, addition of an Asphalt Type field, updates to the Project Certification Pre-Certification functionality, fixes various production problems in HiCAMS, and fulfills some user requests. Additional changes include:

- Expansion of the Asphalt Mix Design and Job Mix Formula numbering fields.
- The addition of an acronym denoting the Mix Type (Warm Mix, Hot Mix, etc.).
- The addition of a field in the Security window to log the Employee ID for NCDOT employees.
- Additional improvements to the Project Certification PreCert module.
- Improved functioning in the Review Material Receipts window when a Material with Alternate IDs is transferred.
- The addition of an Administrative Authority field in anticipation of providing Distributed Approval authority for Division Purchase Order contracts that are administered in HiCAMS.

HiCAMS - General

- Updated the Login window (SQA 20516)
- Added a Print Screen option. This can be performed by using the F12 button or by going to Tools > Print Screen. A picture of the screen prints on the user's default printer. (SQA 20516)
- Added search functionality to the Contract Selection window, the Query results window, the Material Selection window, and the Test Format Maintenance window. (SQA 20516)
- Added a Sort key indicator so that the sort direction and column are more easily determined. (SQA 20516)
- Added a New Status Bar (SQA 20516) that displays the following:
 - Data retrieving status
 - HiCAMS version
 - Current logged In user ID
 - Current database and Sybase Open Client version
 - Date and Time
 - Windows version
 - Number of Notifications waiting
 - Screen Resolution

CONTRACT MAINTENANCE - Review Contract Details

- Corrected the Interest Due Date calculation so that it was not displayed until the Contractor Notification

was entered. (SQA 20394)

- Per a Construction Unit request, added a separate security tag for **entering the Acceptance Date** (SQA 20387) and assigned that task to users in the following security groups:
 - Area Construction Engineer
 - CCU Estimates Engineer
 - CCU Final Estimate Tech
 - Division Construction Engineer

The estimate process has been updated to require the Acceptance Date be entered by either the Roadway or Bridge Construction Engineer for your division, or by your Division Construction Engineer.

- Added a new field named **Administrative Authority** to the Staff Tab of Contract Details window. This field is setting the groundwork for Distributed Contract Administration Authority. At the time of release, two Administrative Authorities are in place, Construction and Division. Contracts with a C prefix are defaulted to Construction, and those with a D prefix are defaulted to Division. No functionality is associated with this field at this time. (SQA 20447)
- Made additional changes to allow the Office Location assigned to the Contract to control access instead of the Office Location assigned to the Resident Engineer. (SQA 20454)

CONTRACT MAINTENANCE - Review Subcontracts

- Modified the functioning of the Certification dropdown so that None is no longer an option if a Contractor is Certified. This was implemented because of a change to the Project Special Provisions that now require all certified contractors to be declared as certified on a subcontract. (SQA 18464)

CONTRACT MAINTENANCE - Authorize Contracts

- Added a Verify WBS function to the Window. This allows users with the correct security to review the WBS elements and their associated Federal Aid Numbers and TIPs for accuracy and make corrections as needed. (SQA 20322)

CONTRACT TRACKING - Review Material Receipts

- Changed the Review Material Receipts window **transfer** functionality to include **transferring the Alternate IDs** (if any) along with the total quantity to be transferred. Previously the Alternate IDs had to be removed or the quantity reduced on the sending contract before the transfer took place. After the transfer the Alternate IDs had to be add to the contract receiving the transfer. Now this can all be done during transfer process by selecting the Alternate IDs and entering the quantity to be transferred and the contract to which it is being transferred.

CONTRACT TRACKING - Review Material Prepayments

- Corrected the functioning of the Estimate window when a change it made to an included Material Prepayment. Previously, the only way for the change to take effect was to uninclude the MPP, re-Generate the Estimate, re-include the MPP, and Generate again. Now, any changes are automatically included on the next Generate. (SQA 19738)

CONTRACT ESTIMATES - Generate Estimate

- Instituted a change requested by the Construction Unit to require the **Acceptance Date** in Contract Details to be entered by the user accepting the Contract work. For TIP Contracts, this person is generally the Bridge or Roadway Construction Engineer, and for Division Contracts, the Division Construction Engineer. The Acceptance Date must be entered in order to Generate a Final Estimate. (SQA 20544)
- Corrected the functioning of the Estimate window when a change it made to an included Material Prepayment. Previously, the only way for the change to take effect was to uninclude the MPP, re-Generate the Estimate, re-include the MPP, and Generate again. Now, any changes are automatically included on the next Generate. (SQA 19738)
- When Generating a Final Estimate, the default setting of the message warning when the estimate amount is over \$5,000.00 has been changed from "Yes - change this estimate to a Partial Estimate" to "**No - leave this estimate as a Final Estimate even though it is over \$5,000.00**". This was done in an effort to help eliminate negative Final Estimates. (SQA 20343)

CONTRACT ESTIMATES - Review Estimates

- Corrected the Interest Due Date calculation so that it was not displayed until the Contractor Notification was entered. (SQA 20394)

DENSITY - Review Density Asphalt Cores QC

- Corrected the validation performed when a Vendor ID is typed into the Paving Contractor so that it matches the one performed when the Vendor is selected from the Contractor Selection window. That validation checks to be sure that the Highway Contractor Type for the vendor ID that is entered is not "History". (SQA 17141)

DENSITY - Review Density Other Conventional

- Added a new status **Complete - Too Rocky to Run**. When a user chooses this status, the Percent Compaction will default to 0.0%. A comment may be entered but it is not required. (SQA 19868)

DENSITY - Review Density Core/Tests

- Updated the Material filter to also include a filter with **Category/Subcategory**. (SQA 20175)

FIELD INSPECTION REPORTS (FIR) - General

- The logic that verifies that the Sum of the Alternate ID Quantities equals the FIR Represented Quantity has been updated to include Rejected Alt IDs. These rejected alt ids were a part of the quantity of material tested and are now counted in the represented quantity. (SQA 20108)
- Corrected the retrieval of duplicate Material Receipts rows being shown on the Material Receipt Alternate ID Links window that opens when an attempt is made to Unauthorize a Field Inspection Report. (SQA 20040)

FIELD INSPECTION REPORTS (FIR) - Review Field Inspection Reports

- **PRESTRESSED CONCRETE**: Corrected the functioning of the application so that when a Material is changed, the associated Alternate IDs are voided and the Available Quantity is set to 0. The dialogue box

was also updated to state that the Alternate IDs would be Voided, not lost. (SQA 20040)

PROJECT CERTIFICATION - Cross Module Data Report & Export

- Added Independent Assurance, QAP (both Asphalt and Aggregate), and remaining Field Inspection Report data to the options available for selection for review. (SQA 20264)

PROJECT CERTIFICATION - Review Project Certification

- Corrections have been made to the display when Project Certification is used with Work Items (SQA 19538). These include:
 - Correcting the sort order so that the Work Items will print in numerical order.
 - Grouping both Line Items and Work Items when the "Sample - Contract Line Items" option is selected in the Project Certification Display Options.
 - Abbreviating the word 'Work Item' to be 'WI' in the line item description on the report.
 - Correcting the code to only show the rows for a specific Line Item - Work Item combination when selected.

PROJECT CERTIFICATION - Material Pre-Certification

- Updated the window to allow users to exclude specific items from the Final Letter Attachment when the Actual NonCompliance amount equals \$0.00. (SQA 20266)
- Added two new navigation buttons to this window. The **PC Notes** button opens the notes entered by both the Resident Engineer office staff and the M&T staff. The **PC Material** button opens the main Project Certification window. (SQA 20267)
- Set the application to default the **Deficiency Type** to the most recent Acceptance Method on the Contract Bill of Materials. (SQA 20270)
- Modified the window to set the Actual Non Compliance amount equal to the Theoretical Non Compliance amount. It previously defaulted to 0.00) (SQA 20280)
- Modified the window to not require comments unless the Actual Non Compliance amount does not equal the Theoretical Non Compliance amount. (SQA 20280)
- Updated the Theoretical Non Compliance Amount calculations performed when FHWA Participation is set to NO to reflect the changes made in the window grid. Previously, the Theoretical Amount for that row was reduced to 0.00 and the total for the Theoretical Amount column in the grid was reduced by the appropriate amount, but the Theoretical Amount at the top of the window and what was displayed in Contract Details was not being updated. (SQA 20415)
- Made changes to the Final Letter to follow the M&T process. Also made cosmetic changes for better printing. (SQA 20418)
- Corrected the issue that was causing "another user has updated this record" errors in the window. (SQA 20569)
- Added code to not return deficiency rows where the line item unit price is less than zero. Also prohibited the addition of line items with a negative unit price. (SQA 20597)

QUERY TOOL

- FIELD INSPECTION REPORTS: Replaced error about MSG Version received when attempting to navigate to a result from the Saved Query Precast Concrete Alternate ID query with one that now requires a contract number. (SQA 20363)
- PRE-CERTIFICATION: **New for Version 8.2** Added the fields from the Asphalt, Material, and Soils Precertification modules to the query tool. (SQA 20295)

STANDARD REPORTS - Contract Level of Service Report

- Added a checkbox to the report filters to allow the report to be run with the Level of Service grading percentages that became effective on July 1, 2011. The previous percentages remain available for comparison. (SQA 20545)

STANDARD REPORTS - Subcontract Report by Division

- **New for Version 8.2** The Main purpose of this report is to allow users to identify Subcontracts in an office or division that have not been Approved. (SQA 20174)

REFERENCES - Asphalt Mix Designs

- Modified the Aggregates Tabs to allow Users to enter a Coarse or Fine Agg material more than once as long as they have different sources. (SQA 20131)
- Added an additional character to the second number sequence to allow more than 999 entries to be made in a single year (SQA 20366; Conversion SQA 20434; Other windows SQA 20540).
- Added a new field "Asphalt Type" to the window (SQA 20366; Conversion SQA 20434; Other windows SQA 20540). The choices available are:
 - DC57 - Permeable Asphalt Drainage Course, Type P-57
 - DC78 - Permeable Asphalt Drainage Course, Type P-78M
 - FC1F - OGFC Type FC-1 w/Fibers
 - FC1S - OGFC Type FC-1 w/Shingles
 - FC2F - OGFC Type FC-2 w/Fibers
 - FC2S - OGFC Type FC-2 w/Shingles
 - HMAC - Hot-Mix Asphalt Concrete
 - MCSB - Micro-surfacing, Type B
 - MCSC - Micro-surfacing, Type C
 - MRAS - Manufacturer RAS
 - PRAS - Post-Consumer RAS
 - RP15 - RAP Mix 15%
 - RP20 - RAP Mix 20%
 - RP21 - RAP Mix 21%
 - RP25 - RAP Mix 25%
 - RP30 - RAP Mix 30%
 - RP40 - RAP Mix 40%
 - RPAS - RAP-RAS Mixture
 - UBWC - Ultra-thin Bonded Wearing Course
 - WM3G - Warm Mix Evotharm 3G
 - WMAB - Warm Mix Maxam AquaBlack
 - WMAD - Warm Mix PQ Corp. Advera
 - WMAF - Warm Mix Meeker AquaFoam

- WMDB - Warm Mix Astec Double Barrel Green
 - WMSB - Warm Mix Sasol Sasobit
 - WMTX - Warm Mix Terex WMA
 - WMUF - Warm Mix Gencor Ultrafoam
- Reworked the AMD Report so that the report would print on a single page. In addition, the correction factor was added, and Stability and Flow values were removed. (SQA 20381)

REFERENCES - Concrete Mix Designs

- Removed all automated expiration / unexpiration of CMDs based on Facility or Facility Type expiration. Instead of the **CMD expiration date** keying off the Facility Type expiration date, the CMD can be used as long as its expiration date is greater than the record date AND the Facility Type expiration date is greater than the record date. (SQA 20481)

REFERENCES - Job Mix Formulas

- Added an additional character to the second number sequence to allow more than 999 entries to be made in a single year. This change is reflected in all windows that display a JMF. (SQA 20366; Conversion SQA 20434; Other windows SQA 20540)
- Added a new field "Asphalt Type" to the window. (SQA 20366_Conversion_SQA_is_20434_Other_windows_SQA_20540) This change is reflected in all windows that display a JMF. The choices available are:
 - DC57 - Permeable Asphalt Drainage Course, Type P-57
 - DC78 - Permeable Asphalt Drainage Course, Type P-78M
 - FC1F - OGFC Type FC-1 w/Fibers
 - FC1S - OGFC Type FC-1 w/Shingles
 - FC2F - OGFC Type FC-2 w/Fibers
 - FC2S - OGFC Type FC-2 w/Shingles
 - HMAC - Hot-Mix Asphalt Concrete
 - MCSB - Micro-surfacing, Type B
 - MCSC - Micro-surfacing, Type C
 - MRAS - Manufacturer RAS
 - PRAS - Post-Consumer RAS
 - RP15 - RAP Mix 15%
 - RP20 - RAP Mix 20%
 - RP21 - RAP Mix 21%
 - RP25 - RAP Mix 25%
 - RP30 - RAP Mix 30%
 - RP40 - RAP Mix 40%
 - RPAS - RAP-RAS Mixture
 - UBWC - Ultra-thin Bonded Wearing Course
 - WM3G - Warm Mix Evotharm 3G
 - WMAB - Warm Mix Maxam AquaBlack
 - WMAD - Warm Mix PQ Corp. Advera
 - WMAF - Warm Mix Meeker AquaFoam
 - WMDB - Warm Mix Astec Double Barrel Green
 - WMSB - Warm Mix Sasol Sasobit
 - WMTX - Warm Mix Terex WMA
 - WMUF - Warm Mix Gencor Ultrafoam

REFERENCES - Test Formats

- Updated the application so that when a sample is created and a test format is used and the application looks up the specs associated with the format / material combination, any specs where the spec expiration date is less than the Sampled Date will be ignored as if they never existed. (SQA 19955)

ADMIN - Security

- Modified HiCAMS to work with the NCID NG (Next Generation). NCID is currently used to validate logins for the QAP web application. (SQA 20328)
- Added an indicator **Sybase Login** to show whether the user has a Sybase account. The User ID can be populated but the user is still not able to login until a Sybase Account has also been created. Sybase Accounts can be requested from Marie Novello or Francine Ward. (SQA 20456)
- Added a Contractor Directory non-DOT employer search to allow standardization of the data being entered. *This field is currently causing problems with the DOT Indicator and will be corrected in Version 8.3.* (SQA 20456)
- Added a Personnel Nbr field. If this field is populated, the DOT Employee Indicator must be checked. *NOTE: A conversion was done with data supplied by Training and Development. If the Personnel Number was populated, the DOT Employee indicator was NOT automatically checked. The Personnel Number will need to be verified when the DOT indicator is checked.* (SQA 20365)

HELP

- Removed the toolbar icon and Help link for the Enhancement and Defect Reporting Web Page. Problems are now reported directly to Materials and Tests (919.329.4357) or the Construction Unit (919.707.2400). (SQA 20243)

Last updated 25 June 2014