

Application Modifications and Enhancements

HiCAMS and DOH Vendor Versions 8.1 were released Friday, November 19, 2010.

OVERVIEW OF THE RELEASE

HiCAMS Version 8.1 implements most of the remaining Project Cert SQAs and fixes various production problems in HiCAMS. Changes include:

- Allowing the Office Location assigned to the Contract to control access to the Contract instead of the Resident Engineer's Office Location
- The addition of the Binder Pay Grade field in the AMD, JMF and ticket windows.
- The addition of a PAR button to the remaining Field Inspection Reports
- Using the quantities on the FIR Hardware tab to count towards Accepted Quantities
- Soil Materials Precertification Submodule
- Asphalt Materials Precertification Submodule
- **NOTE:** No changes were made to the DOH Vendor system in the 8.1 release. This release maintains synchronization of the Release Numbering.

CONTRACT MAINTENANCE - Review Contract Details

- Access to contracts is now controlled by the **Office Location** on the Review Contract Details > Staff Tab rather than the office location of the Resident Engineer.
- Restored the data display to the **Status** tab. This data had been dropped in a previous release when the contract being reviewed had not had its first estimate Generated.
- Updated the **Completion** tab to show the **Actual** and **Theoretical Non Compliance Amounts** as calculated in the Pre-Certification Module of Project Certification.
- Added three new field to the **Completion** tab for **Waste Quantities** data entry. These fields are open to Construction users. When the final estimated amount of Material wasted on the project is known, the quantity can be entered here to aid in determining the number of Density tests that should have been taken. The three materials for which waste amounts can be entered are:
 - Embankment
 - Unclassified
 - Borrow
- Updated the M&T Status tab to include an **M&T Group**. This group will allow M&T Project Certification Specialists and other users to more easily track which Contract is due for review.
- Reformatted the **Workflow** display on the M&T Status Tab into a grid so that the information is easier to review. This also allows the workflow records to be queried.

CONTRACT MAINTENANCE - Review Contract BOM

- Added a new Security permission so only specified users would be able to modify a conversion factor that had been defaulted from the Master Bill of Materials (MBOM).
- Added a new check when a material is deleted from the CBOM to ensure that the material is not being used in any of the Project Certification Pre-Certification modules.

CONTRACT TRACKING - Review Material Receipts

- Updated the error message received when a duplicate Alternate ID is entered to not reference the Selection Window anymore.

- Corrected the way that Accepted Quantities are determined when material accepted by Certifications is transferred from one contract to another. Originally, the Certification information was copied from the source MRR to the destination MRR. Now, the user has to re-enter Certification Data on the destination MRR, in order to verify that a separate copy of the Certification was received with the transferred material.

CONTRACT TRACKING - Review Tickets

- Replaced the Field labeled **Binder Grade** with one labeled **Binder Grade - Pay**. This field displays the proper Grade of AC Binder that should be selected for the AC line item column during entry of Asphalt tickets. The field is determined by Table 610-2 as specified in Section 620-4 of the Standard Specifications.

CONTRACT TRACKING - Review Pay Adjustments

- Added PAR functionality to some additional Field Inspection Reports. This includes the FIRs for Guardrail Hardware, Precast Concrete items, Prestressed Concrete items, and Stay-in-Place forms.

CONTRACT ESTIMATES - Review Estimates

- Added PARs created from failing densities in the Review Density Other Conventional and Nuclear windows to the list of PARs that must be closed before a Final Estimate can be forwarded.
- Removed Voided Field Inspection Reports from the Issue listing on the **Open Issues** tab since a Disposition is not required for them.
- Updated the estimate processing code so that the PDFs transmitted to SAP with the estimate transactions appeared correctly in the display when the estimate was Approved on a computer using the **Windows XP** operating system.
- Fulfilled a user request for a Report that can be distributed to the Contractor to illustrate material shortages before the estimate is processed.

The new **Estimate Report Snapshot** can be found in the print menu.

Things to remember when using the Estimate Report Snapshot:

- The Estimate Report Snapshot derives its data from the Project Certification module.
- If the Estimate was Generated before the Version 8.1 release, the report will be blank!
- To **populate** the report data on an existing Estimate, Generate the Estimate.
- To **update** the report data after an Estimate has been Generated, Generate the Estimate. The Data included will be from the last time the Material Quantities data was Generated.
- To **update** the report data after an Estimate has been Generated, and to **include** the most recent Material Quantities data, Re-Generate the Project Certification Data, then Generate the Estimate.

FIELD INSPECTION REPORTS (FIR) - General

- Added Disposition and PAR functionality to some additional Field Inspection Reports. This includes the FIRs for Guardrail Hardware, Precast Concrete items, Prestressed Concrete items, and Stay-in-Place forms.

FIELD INSPECTION REPORTS (FIR) - Review Field Inspection Reports

- GUARDRAIL: Added Disposition and PAR functionality to the Hardware tab of this Field Inspection Report.
- GUARDRAIL: Adding Disposition quantities to the Hardware tab now allows those quantities to be reflected in the Project Certification reports.
- PRECAST CONCRETE: Added Disposition and PAR functionality to this Field Inspection Report.
- PRESTRESSED CONCRETE: Added Disposition and PAR functionality to this Field Inspection Report.
- STAY-IN-PLACE: Added Disposition and PAR functionality to this Field Inspection Report.

SAMPLING - Review Sample Details

- Fulfilled a user request to move the PAR button from the General Tab to the Line Item Tab. The request moves the button to the tab on which the disposition information is entered.

PROJECT CERTIFICATION - Cross Module Data Report & Export

New for Version 8.1

- The new report allows users to extract data from more than one HiCAMS Module and provides the ability to export this data into a spreadsheet to facilitate data analysis.

Existing reports are able to determine how many samples are required based on quantity paid/received, but are unable to confirm that the samples were taken at the correct time and for each lot.

By allowing the user to select both ticket and samples in the same data request, the new report will allow them to review the data by date and determine if the material lots were adequately sampled.

- To export the data to a spreadsheet, set the report filters and Retrieve the data. From the Report Tab, click on Save As, and specify the file location to which the spreadsheet will be saved.

PROJECT CERTIFICATION - Review Project Certification

- Corrected the output created when the option in the **Generate Data Using** field is changed. The user can either generate using the "MSG spec on source record" or the "Latest MSG on CBOM". For most Materials, the Project Certification data does not change when the selection is changed because most Material Types are not updated during the life of the contract.

If changes have been made to the MSG, these changes are now reflected when the different options are selected.

- Selecting "MSG spec on source record" generates data based on the MSG Material Type version in effect when the source data was entered.
 - Selecting "Latest MSG on CBOM" evaluates the data based on the Current MSG Material Type version regardless of what was in effect when the data was originally entered.
- Updated the Name displayed in the Notes column to reflect the last person to make an entry instead of the first person. New entries in the Notes section will also be displayed with the newest entry first. (Old entries will remain in the previous order.)
- Changed the text of the Notification sent from this window to include the phrase "The M&T Records Section and/or SMS" since reviews are now being conducted by both categories of users.
- The **Contract Material Quantities** tab now displays the **M&T Group** that is set in Contract Details.
- Added additional information to the window displayed when the **More Info** button on the **Details** tab is clicked. Now more **More Info** data is displayed for Samples, Material Received Reports, Pay Records, and Field Inspection Reports.
- Corrected the Display Option "Samples - Contract Line Items" to display line items for all samples, not just those that had represented quantities on more than one line item.
- Added the option **Hide Canceling Rows** to the Display Options. When this option is checked, records that have the Same Source Type, Source ID, Source Status, and Reversing Represented Quantities will be filtered out. **Note:** *Selecting this option may slow down the data retrieval.*
- Updated the display so that when a Material's Accepted quantity comes from linking to an Alternate ID on a Sample or Field Inspection Report, the Accepted Quantity is now displayed with the Sample or FIR record. The Received quantity continues to display with the MRR.
- Corrected the security for the window to allow only those users assigned to the contract's office location to have update access to it.
- Corrected the calculation of Accepted quantities when Certifications were Required, and Sample/Test was Optional. Previously, the Accepted Quantity included the quantities from both the Certifications and the Samples. Now it will include only the Certification quantity.

PROJECT CERTIFICATION - Review Asphalt Pre-Certification

New for Version 8.1

- The new Asphalt Pre-Certification module provides designated users with the following:
 - A summary of Asphalt material tonnages, number of density tests performed, number of passing tests, and number of failing tests.
 - A place to manually indicate whether or not there were testing shortages. If testing shortages are indicated, the user will be provided with a method of indicating the quantity of material that should be considered 'non-compliant' and a line item that should be used to calculate non-compliance dollars.
 - A place to view comments regarding differences between theoretical and actual pay factors entered on QA-2B PARs. If the comment does not provide an adequate explanation and/or there is reason to believe the contractor was not penalized properly, the associated tonnage of asphalt may be marked as "non-compliant".
 - A list of all QC Density failures that do not have an associated PAR, as well as failures where the PAR has not been disposed. Asphalt Material Certification cannot be completed until all QC Density failures have an associated PAR and all QA-2B PARs have been disposed.
 - A summary list of all QA-2A PARs for review. During this review, the user will be provided with a method of indicating whether or not the tonnage associated with the PAR should be considered non-compliant.
 - A method of printing an Asphalt Certification summary letter to be included in the Pre-Certification package.

PROJECT CERTIFICATION - Review Soils Pre-Certification

New for Version 8.1

- The new Soils Pre-Certification module provides designated users with the following:
 - A list of all Soils Density failures that do not have an associated PAR, as well as failures where the PAR has not been disposed. Soils Material Certification cannot be completed until all Density failures have an associated PAR and all PARs have been disposed.
 - A summary list of all Soils Density PARs for review. During this review, the user will be provided with a method of indicating whether or not the quantity associated with the PAR should be considered non-compliant. If non-compliance is indicated, the dollar amount paid to the contractor will be added to the "Non Compliance Amount" field in the Contract Details window.
 - A report detailing the plan quantities of material (where available), waste quantities (where applicable), received quantities from tickets, accepted quantities from gradation samples, and daily density tests to help the user manually determine if enough tests were taken, and taken at the appropriate times
 - A place to manually indicate whether or not there were testing shortages in each soils density category (Embankment, Subgrade, Base). If testing shortages are indicated, the user will be provided with a method of indicating the quantity of material that should be considered 'non-compliant' and a line item that should be used to calculate non-compliance dollars.
 - A method of printing a Soils Certification summary letter to be included in the Pre-Certification package.

PROJECT CERTIFICATION - Pre-Certification

New for Version 8.1

- The new Precertification functionality includes:
 - the ability to filter out **Soils, Aggregate and/or Asphalt** material type groups
 - the ability to print periodic **Non-Compliance** letters
 - the ability to send an **Asphalt Pre-Certification Notification**
 - the ability to send a **Soils & Aggregate Pre-Certification Notification**
 - the ability to specify **Material Certification Shortages**
 - the ability to print the **Final Non-Compliance** letter
 - the ability to print a **Non-Compliance Theoretical Dollars** letter
 - the ability to enter **Final Material Shortage Notes**

STANDARD REPORTS - Contract Level of Service Report

- Added the ability to filter data based on the letter prefix with which the Contract Number begins. This allows the exclusion of the D or Division Let contracts from the Level of Service calculations performed for the NCDOT Metrics.

STANDARD REPORTS - Subcontract Report by Vendor/Contract

- Corrected the information displayed when the Grouping is set to By Division.

REFERENCES - Asphalt Mix Designs

- Added an optional Field labeled **Binder Grade - Pay** to the window.
- Modified the auto numbering of the AMD to no longer exceed three digits in the second position. The maximum number for any year can no longer exceed YY-999.

REFERENCES - Concrete Mix Designs

- Changed the relationship between when a Ready Mix facility expired and when its associated Concrete Mix Designs (CMD) expire. Before V8.1, the CMDs would expire the same day as the RM facility auto-expired. Now they expire 30 days later.
- Added two notifications that will be sent to the Material Inspector and the Physical Lab Supervisor. One stating "Warning: Facility RM### will expire in 30 days" will be sent 30 days prior to the RM facility auto expiration date, and the other will be sent the day that the RM facility expires ("Facility RM### expired today.") The system already sends a 60 day notification.

REFERENCES - Job Mix Formulas

- Added a required Field labeled **Binder Grade - Pay** to the window. This field is displayed along with the AC Per Cents in the Review Ticket window.

Page last updated 19 November 2010