

KENTUCKY TRANSPORTATION CABINET

Kentucky TRNS*PORT Information Series

SiteManager Materials Module

LIMS Review Tests Window

Navigation

LIMS \ Review Tests

Review Tests Window Description

LIMS test review provides a way for supervisors to take different actions on the tests after they have been completed by testers. Supervisors can generate a grid view to compare test results for the same test for different samples. Tests may be approved, re-queued, or marked for retest. Test results may not be altered by the supervisors for any reasons. If all tests for a sample are marked for auto-finalization, then the sample is authorized when the last test of a sample is marked Review Complete.

Review Tests

After each sample test has been completed at the lab unit, the test appears on the Review Tests window as shown in the following section. The list that appears is restricted based on the following criteria:

- The code table LMSLBSQ has all the statuses that should be displayed for this window for all users who belong to the user group designated as Group ID for Lab Supervisor system parameter. For all users who belong to any other group, the system will use the LMSLNSQ code table. The system will list those tests that have one of the test statuses listed in the code table. The system will filter all other test statuses.
- The lab unit that the user has chosen must have the appropriate qualifications to perform the test.
- The supervisor must have the appropriate qualifications to perform the test.
- Contract level security will limit a user's access to the sample records based on the contract authority and sample-to-contract associations. The user must have the proper contract authority to view or edit the sample test. If a sample has no contracts associated, it will be available to any user who meets the other security conditions.

If a user belongs to multiple lab units, clicking on the ALL MY LABS radio button for the Test Queue Criteria will display tests assigned to all the user's labs. The user can use the Filter Criteria to further limit the number of tests displayed on the window.

When the user clicks on a test, the test template results are displayed. The effective date column is populated with the effective date associated with the results.

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Supervisors can add remarks by clicking on the Remarks icon.

The column Supervisor Action is enabled only if the test is the highest test number for that test method. The Reportable column is selected by default. . This column indicates the test will be viewable on the Review Sample window. A supervisor can take three actions on a test. Each of the actions that a supervisor can take is explained below in detail.

Review Completed

When a supervisor selects the Review Completed option and clicks on the Save icon, the system checks to see if the test template passes or fails. This is done by checking the monitor field value of the template against the values defined for the LMSAFINL code table. If the test template passes, then the system checks to see if there are alternate workflows defined for sample type, material code, test method and lab unit combination. If there is an alternate workflow available, the test status will be updated to the status defined in the alternate workflow. If there is no alternate test workflow defined, the test will get a status based on the group the supervisor belongs to.

If the supervisor belongs to a group that is designated as Group ID for Lab Supervisor in the system parameters, then the test will be moved to a status defined by the 'Test Status for Lab Supervsr' Approval system parameter. Otherwise, the test will get a status defined in the Test Status for 'Line SupervsrApproval' system parameter. All the previous tests for the same test method, if any, will also get the same test status as the one that was approved. The updates are done to the lims_smpl_tst2 table. The system will write a log of the all the test method status changes to the tracking table lims_sample_test_log.

After each test is approved, the system checks to see if all other tests for the sample have a status defined in Test Status for 'Lab Supervsr Approval' system parameter. If they are, the system will check to see if the sample qualifies for autofinalization. The conditions for autofinalize are as follows:

- n All tests assigned to the sample must be marked as Autofinalize in the default test assignment.
- n All non-cancelled tests must have a result that matches one of the values defined in the LMSAFINL code table.

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- n If the sample does not pass the autofinalization check, the sample is moved to a status specified by the 'Sample Status for Pre Auth' system parameter. If it passes, the system will mark the sample status to the status defined in the 'Test Status for Finalized' system parameter. The acceptance method for the sample will be updated with the value specified in the 'Acceptance Method for AutoFinalize' system parameter. The sample is the Authorized and the Authorized By column for the sample will be set to SYSTEM. The system will write a log of the sample status change in the table lims_sample_log.

After all updates are done, the system will calculate the current satisfied material sampling and testing requirements by calling the CCalculateRequirement routine.

After the save is done, the data list will be refreshed and the tests that were marked as complete will not be available in the queue.

Re-Queue

When the supervisor chooses the Re-Queue option, the system will change the status of the sample test to the one defined in the 'Test Status for ReQueue' system parameter. All the previous tests for the same test method, if any, will also be updated to the same status. The system will write a log of the all the test method status changes to the tracking table lims_sample_test_log. After the save is done, the data list will be refreshed and the tests that were marked as Re-Queue are not available in the Review Tests queue.

Order Retest

When the supervisor orders a retest, new test numbers are created for the sample test method. A window is displayed to select additional runs for the test. The supervisor can select up to five additional runs for the same test. After selecting the additional runs and clicking the OK button, the system will create additional test numbers for the test. The tests will have status defined in the 'Test Status for Retest in Queue' system parameter. All the previous tests will get a status defined in the 'Test Status for Waiting Retest' system parameter. The system will write a log of the all the test method status changes to the tracking table lims_sample_test_log. The system will copy any remarks that were entered for the code ID defined in the 'LIMS Remark code type to be used for Retest' system parameter to the new test created. After the save is done, the data list will be refreshed and the tests that were marked as Order Retest will not be available in the queue.

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Procedure

To review the test results submitted by the tester, use the Review Tests window. Upon reviewing the test results of a single test or multiple tests of the same type, select the appropriate supervisor's action. Enter in remarks for Requeue or Retest selections.

Do not clear the Reportable check box.

Visual certification tests will be marked as autofinalized.

Field Table

Field Name	KYTC Population Policy & Procedure
Select Lab Unit	Name of the lab unit where tests are being reviewed.
Supervisor Action	The actions a reviewer can take on the sample test include the following: Review Completed – Indicates the test results have been reviewed and are ready to proceed to the Review Sample window. Requeue – Indicates the test results should be re-examined by the tester. Detailed info about the request should be found in the Remarks window's Requeue Comment remark type. Retest Ordered – Indicates the test should be performed again (max of 5). Detailed info about the request should be found in the Remarks window's Retest Comment remark type.
Reportable	This column indicates whether the test is reportable or not. Do not clear.
Lab Control Number	An umbrella number used to link samples. May use during sample review to process multiple samples at once.
Lab Reference Number	Simplified sample identifier used in the labs
Sample ID	Identifies the sample.
Contract ID	List of all contracts assigned to the sample.
Test Description	Description of the test method
Test Number	Indicates run of the test on the sample
Test Status*	Current status of the test.

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Field Name	KYTC Population Policy & Procedure
Tester*	Tester assigned by the supervisor to perform or oversee the test
Completed Date	Date when the sample was marked as complete in the lab unit
Priority	Priority assigned to the test by the supervisor.
Due Date	Due date assigned to the test by the supervisor.
Material Code	Identifies the material.
Producer Supplier*	The producer / Supplier associated with the sample
Manufacturer *	Producer/supplier of the material in the sample
Sampler	User ID of the sampler
Test Method	Method used to test material.
Sample Type*	Indicates type of sample.
Control Number	The control number for the sample
Seal Number	Seal number for the sample ID
Sample Date	Seal number on the batch of the material tested.
Toolbar ~ Remarks	Enter/View remarks associated with the selected test. Enter appropriate remarks for Retest and Requeue. Remarks should be in capital letters followed by User Id and date.

REVIEW TESTS GRID VIEW

Review Tests Grid View Description

Supervisors can generate a grid view for a test across multiple sample test runs to compare test results as shown in the following Layout section. To generate the report, the supervisors can click on a test method and then click on the MULTI-TEST radio button

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under the TEST RESULTS REVIEW radio button option. This will filter the test methods in the top panel with all the sample test runs for the test method selected. The command button COMPARE RESULTS becomes visible. The user can select one or more sample test runs and click on the COMPARE RESULTS button. This will generate a report listing the template results, the minimum and maximum values for the spec templates and whether the test passed. Any result that does not fall within the minimum and maximum values is displayed in red with an asterisk. Clicking on the SINGLE TEST radio button under the TEST RESULTS REVIEW radio button will display all the tests that were originally retrieved and the COMPARE RESULTS button becomes invisible.

Navigation

Select the tests to be compared and click on the Multi Test option on the TEST RESULTS REVIEW radio button and then click on the COMPARE RESULTS button.

Procedure

View the test results to determine appropriate supervisor's action.

Field Table

Field Name	KYTC Population Policy & Procedure
Test Template	Test template for which the comparison is being made
Template Column	Field on the template.
Min	Minimum acceptable value for a spec template.
Max	Maximum acceptable value for a spec template.
Sample ID / Test Number	Combination of Sample ID and the sample test number selected for the grid view results comparison.