Florida Department of
TRANSPORTATION

Random Samples on FDOT Projects

March 5, 2024

Contents

What is Random Sampling?

Materials Manual Section 5.10 – Evaluation of Manufactured Materials and Random Sampling of Approved Products – describes the Random Sampling Program. It is part of the Product Evaluation Approved Products List (APL). Products listed in Section 5.10 are sampled from FDOT projects. These products are currently on the APL so they have undergone the initial testing and evaluation for pre-approval. Testing them as they are applied in the field ensures that the product supplied on the project is the same as the original product that was approved.

These instructions are intended for project personnel to provide guidance on getting the random sampling requirements on the Job Guide Schedule (JGS).
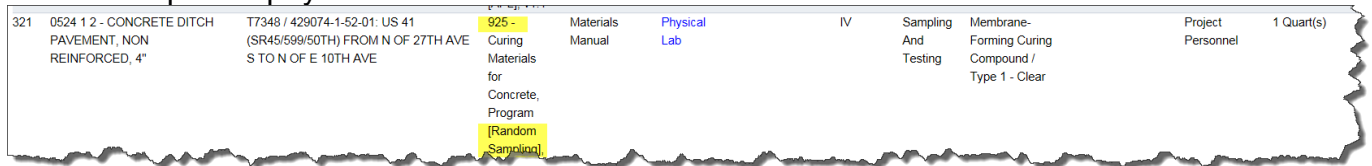
In addition to Random Sampling, products on the Approved Products List used on construction contracts are required to be logged into MAC for APL / BABA (Build America Buy America) tracking. The products listed in *MM 5.10* are a small subset of the APL. The samples logged for Random Sampling are program level samples. The samples logged for APL / BABA tracking are project level samples. For more information on APL / BABA tracking requirements see the APL Tracking Sample Life Cycle Instructions. These requirements are in addition to those described in that document, not a replacement.

Chapter 1 – Random Sampling Program MAC Specs on the Job Guide Schedule

MAC Specs (material ids) for random sampling are not Project MAC Specs. They are Program MAC Specs. Most of the time, program MAC Specs do not belong on the JGS. For the MAC Specs for random sampling, they do belong on the JGS to remind the project personnel of the requirement to collect the sample, log the sample into MAC and send the sample to the State Materials Office (SMO). Additonal instructions can be found in Materials Manual Section 5.10. These instructions are not intended to replace the Materials Manual requirements and do not include all the requirements. They are focused on the MAC specific functions for sample login data entry. Samples under Program MAC Specs may or may not be affiliated to a specific project. The results of the sample testing do not impact Materials Certification Review in most cases.

A. Random Sampling Program MAC Specs on Standard JGS

In MAC, the contracts with conventional pay items have a JGS that is generated by MAC. When the project personnel generate the JGS, the program MAC Specs for random sampling will appear under the specific pay items.

| 321 | 0524 1 2 - CONCRETE DITCH PAVEMENT, NON REINFORCED, 4" | T7348 / 429074-1-52-01: US 41 (SR45/599/50TH) FROM N OF 27TH AVE S TO N OF E 10TH AVE | 925 - Curing Materials for Concrete, Program [Random Sampling], | Materials Manual | Physical Lab | IV | Sampling And Testing | Membrane-Forming Curing Compound / Type 1 - Clear | Project Personnel | 1 Quart(s) |

B. Random Sampling Program MAC Specs on Nonstandard JGS

A QC data entry person is responsible for updating the nonstandard JGS for Lump Sum and Design Build contracts to include the entries for random sampling if they apply. For other types of contracts, the responsible party's data entry person will update the nonstandard JGS. Refer to the nonstandard JGS instructions for details on the full entry of a nonstandard JGS. These instructions are specific to the requirements for random sampling.

Program Specs [0]   Click to Collapse

                                                                        Update Program Specs
No results found

1. Click on the Program Specs tab to expand it.
2. Click on the Update Program Specs option.

An Update Program Specs dialog box will appear.
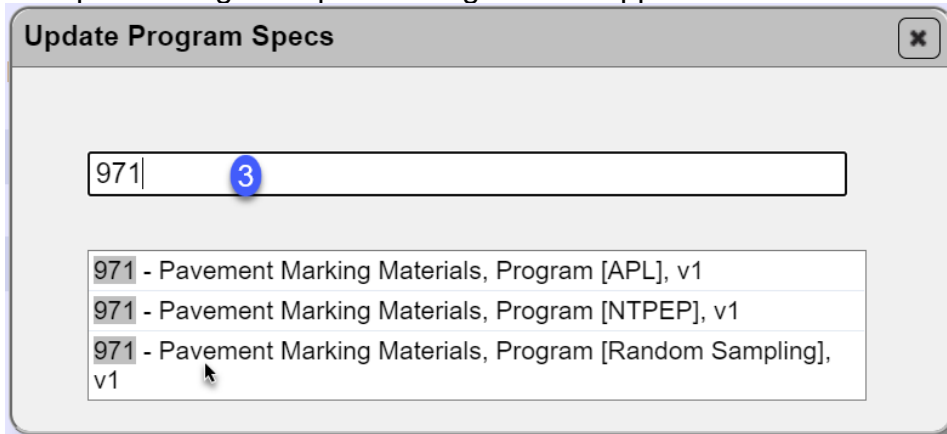
3. Type in the MAC Spec Material Id or description in the field to begin search for the Random Sampling MAC Specs and select the entry from the returned list.
4. Select the entry on the list with "Random Sampling" in the description. Do not select the option with "APL" or NTPEP in the description.
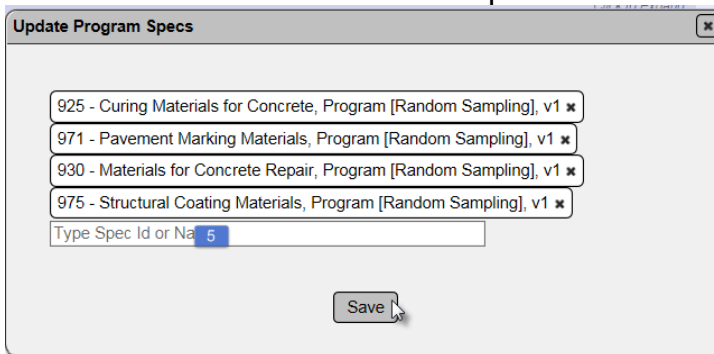
5. Repeat for all materials listed in Materials Manual Section 5.10 that will be used during the life of the contract.
6. Select the Save option to add program MAC Specs to the nonstandard JGS.

NOTE: This is not required to be able to log the samples into MAC. These steps are to ensure that the required sampling is listed on your JGS. It is required to meet the definition of a complete nonstandard JGS as described in PA Instructions for LS JGS (contract compliance requirements).

C.   MAC Spec – APL Spec Crosswalk

In some cases, data entry will need to select a different MAC Material for the nsjgs than the APL Spec category of the product. *Materials Manual Section 5.10 – Evaluation of Manufactured Materials and Random Sampling of Approved Products Table 1* for a summary of the Materials Specifications and MAC Specs based on those Specifications for details on which MAC Materials to select. Additional information can be found such as product category and sample size.

Chapter 2 – Logging in a Random Sample

You must be in company roles to log samples into MAC. These instructions are intended to be a supplement to the full MAC Sample Life Cycle (SLC) instructions. They assume the user has access to MAC, is familiar with SLC functions, has the correct roles to create samples (data entry or data reviewer), and is already logged into MAC.
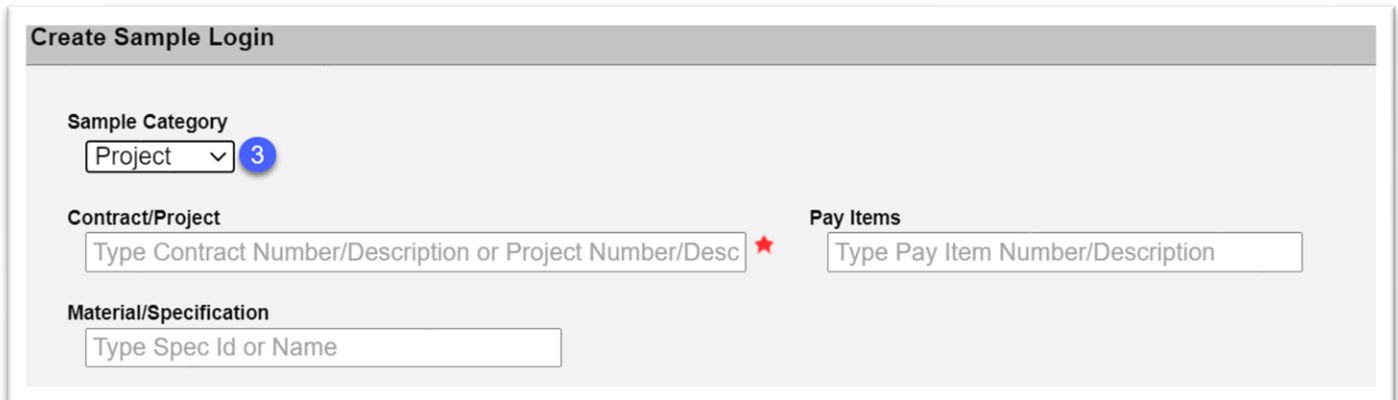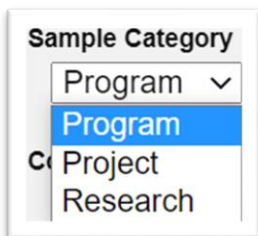

1. Select the Manage Samples option from the MAC menu.
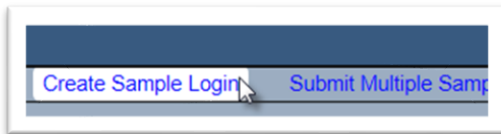
2. Select the Create Sample Login option

A Create Sample Login screen will appear with the default of Project for the Sample Category field.

3. **Sample Category** – select the Program option and the dialog box will reappear with only the Material/Specification option.

4. **Material/Specification** – enter the MAC Material you have collected the Random Sampling sample for. You must select an entry from the returned list to populate the field, even if the list only has one entry. Click on the entry to populate the field.

NOTE: Some Random Samples have a different MAC Spec than the APL Spec for the product. See

You will see a dropdown list of MAC Specs for the material you selected.

5. Select the option for Random Sampling. The options for APL and NETPEP are used by SMO to document the results of a new product not yet on the APL. Not all Materials will have a NTPEP option.

Now you have provided enough information to get the specific login screen.

6. Click on the Continue to Sample Information Screen to see the login screen.

More fields will appear. The fields will vary depending on the material selected.

7. **Category** – select the appropriate category/type for the material sampled.

NOTE: Login screens will vary. There will be more fields depending on the material category and type. The typcial required fields are described below. A required field is indicated by a ★.

For Random Samples, the lab id defaults to the State Materials Office Lab Id and you can't change it.

8. Contact Name – enter the name of the sample contact person. This may or may not be the same person as the sampler. It is a person the laboratory can call or email if there are questions about the sample.
9. Cell Phone # or Office Phone # – enter either the Cell Phone # or Office Phone # in the appropriate field. Only one is required. As soon as one is entered, the other required field designator disappears. Both can be provided for informational purposes.
10. Email – enter the email address of the contact person in the Email field.

11. Save & Submit – select Save if you are not ready send the sample for testing and want to save the data you have entered so far. Select Submit if you are ready to send the sample for testing. If you select Save, the sample will be designated as Logged and will need to be Submitted for Testing in order for the test results to be entered on the lab tests.
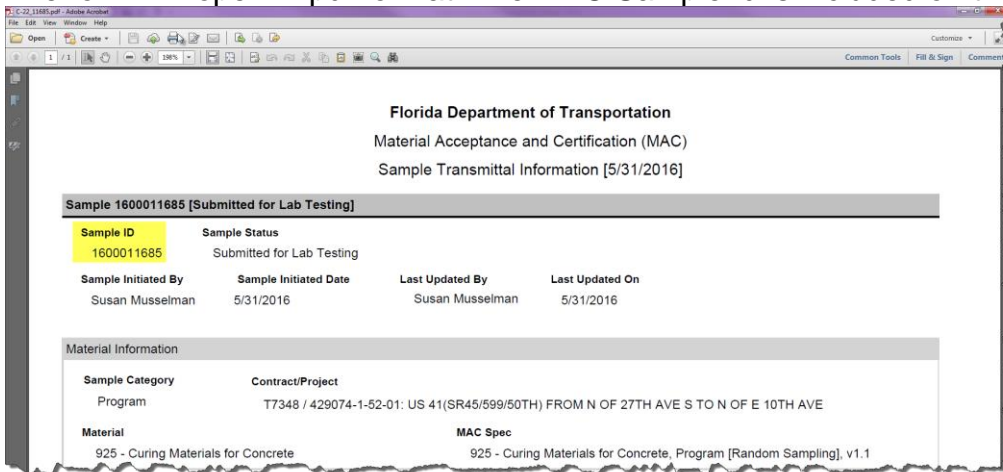
Create New Sample Login from this Sample   Delete Sample   View Sample Transmittal Information for Print   View Sample
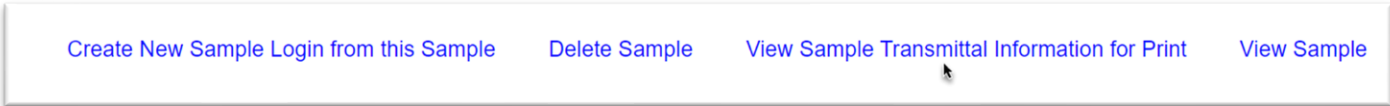
12. Select the View Sample Transmittal Information for Print option to print a copy to attach to the sample.

Do you want to open or save C-22_11685.pdf (3.67 KB) from fdotews1.dot.state.fl.us?   Open   Save ▾   Cancel   ×

13. When the prompt appears after the document has downloaded, select the Open option.

The form will open in pdf format. The MAC Sample Id is included on the form.

Florida Department of Transportation
Material Acceptance and Certification (MAC)
Sample Transmittal Information [5/31/2016]

Sample 1600011685 [Submitted for Lab Testing]

Sample ID	Sample Status
1600011685	Submitted for Lab Testing

Sample Initiated By	Sample Initiated Date	Last Updated By	Last Updated On
Susan Musselman	5/31/2016	Susan Musselman	5/31/2016

Material Information

Sample Category	Contract/Project
Program	T7348 / 429074-1-52-01: US 41(SR45/599/50TH) FROM N OF 27TH AVE S TO N OF E 10TH AVE

Material	MAC Spec
925 - Curing Materials for Concrete	925 - Curing Materials for Concrete, Program [Random Sampling], v1.1

27. Print the form and attach it to the sample.
28. Send the sample to the SMO.

The appropriate technical section will test the material, submit the sample to FDOT for verification and finalize the sample.