



# PA Review for Job Guide Schedule (JGS) Standard and Non-Standard



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### Introduction

# What is a Job Guide Schedule (JGS)?

The Job Guide Schedule, or JGS, is an entry in MAC that summarizes the materials acceptance requirements for a Financial Project Id (FPN). The Sampling Testing and Reporting Guide, or STRG, is a summary of all MAC Specs. The JGS lists the subset of STRG entries that apply to a specific project.

### What is a Material?

A Material in MAC is the highest level of material definition. It is made up of the Material Id and Material Description. For example, *FDOT Specifications Section 120* is for Excavation and Embankment. The MAC Material Id is "120" and the Material Description is "Excavation and Embankment". Together they make up the MAC Material "120 – Excavation and Embankment".

# What is a MAC Spec?

A MAC Spec is the child record of a MAC Material. A MAC Spec is where the material acceptance requirements are designated, sample frequency, tests and acceptance limits, qualification requirements for sampling and testing personnel and labs, and comparison criteria. A MAC Material can have many MAC Specs.

There are four MAC Spec categories: Project; Program; Mix Design; and Research. Project MAC Specs contain the information for the JGS. There are also a few Program MAC Specs that are eligible for a JGS. Mix Design and Research MAC Specs are not part of a JGS.

There are six types of Project MAC Specs:

- Supplemental Specifications with corresponding FDOT workbook(s)
  - o A Supplemental MAC Spec can overlap multiple FDOT workbooks.
    - For example, Project MAC Spec 200 Rock Base [01/2009 v1] covers projects let from 01/01/2009 to 10/01/2021
- Special Provisions (including Modified Special Provisions)
- Developmental Specifications
- Technical Special Provisions
- Change Orders
- Plan Notes

MAC Project Supplemental Specifications apply to all projects with that material. The last five types are *project specific* entries and only appear on projects they are manually assigned to by the SMO. These are described in detail in Chapter 1 – Project Specific MAC Specs.

# What is a nonstandard JGS (NSJSG)? How is it created?

The nonstandard JGS, also known as an NSJGS, is for contracts with one pay item, like Lump Sum or Design Build: or no pay items, like a Local Agency Program (LAP) on-system contract. A user creates an NSJGS entry and provides the Materials and Program MAC Specs. These entries are used for the Material Certification (MC) Review and to generate the hardcopy JGS report.

**NOTE**: Projects that are not from AASHTOWare Project Construction (PrC) do not have a let date; for example, a LAP or Grant project. For these, please contact a District Application Coordinator (DAC) to create the NSJGS entry and assign it to your company. The DACs can set a let date when creating the entry. The PA needs to provide the correct date as shown in the contract documents.

This is the Create NJSGS dialog box available to DACs. It is used for Work Order NJSGS and non-PrC projects with no let date.



When a project has a let date that MAC has retrieved from PrC it will appear on the Create NSJGS dialog box for the DAC.



PAs with non PrC projects or projects that are eligible for work orders should work with the appropriate DAC to create the initial NSJGS entry. In some cases, MAC will allow the data entry person to create the entry, but none of the special programming will be applied and the entry will have to be deleted and recreated by a DAC (Chapter 4, <u>B. Work Order NSJGS</u>).

# What contracts get an NSJGS?

All FDOT Lump Sum contracts must have a NSJGS per **Specification Section 105**. Other contract types may include **Specifications Section 105**. An example would be an on-system LAP contract.

Contract types such as Small County Outreach Program (SCOP), Small County Road Assistance Program (SCRAP), and County Incentive Grant Program (CIGP) may also require an NSJGS. The contract documents should indicate who will be responsible for creating and maintaining the NSJGS, the Contractor or the Local Agency. See <a href="Chapter 3 - What Contracts get an NSJGS?">Chapter 3 - What Contracts get an NSJGS?</a> for more details.

# Why should the NSJGS be reviewed regularly?

QC and project personnel need to review an NSJGS regularly to ensure that entries are correct and complete. Are all the materials being used on the project on the NSJGS? As new material operations begin, the NSJGS should be reviewed to ensure the material has been included.

The automatic assignments done by MAC only apply to MAC Supplemental Specifications. Chapter 1 – Project Specific MAC Specs describes how contract specific materials acceptance requirements get assigned manually by the SMO. Reviewing the NSJGS regularly will ensure that there are no missing MAC Specs or incorrect MAC Specs being assigned.

A sample cannot be entered into MAC if the material is not on the JGS. That is another reason why the NSJGS needs to be reviewed. Users must not attempt to log samples under the wrong MAC Material/Specification if the correct one isn't on the JGS. Users should notify a JGS data entry person when they cannot log a sample into MAC. For example, if the project has Integral Pile Jackets, MAC Material 457 – Integral Pile Jackets needs to be assigned to the Materials tab and the SMO Corrosion technical unit needs to assign the FPN on the Project MAC Spec 457 – Integral Pile Jackets. If the sampling and testing data entry personnel attempt to log the samples under MAC Specs for 346 – Portland Cement Concrete, a 9" slump test result for ASTM C143 would be designated as failing under MAC Material 346 when it passes under MAC Material 457.

### **Chapter 1 – Project Specific MAC Specs**

To understand how a JGS is compiled, you need to know what a project specific MAC Spec is. Project specific requirements are found in a document other than the **FDOT Supplemental Specifications**. They add to, alter, or delete the materials acceptance requirements found in the **FDOT Supplemental Specifications**. If a corresponding MAC Spec is not created and assigned to the project by the SMO technical unit, the requirements will not be added to the JGS.

**NOTE**: For the purposes of MAC, *FDOT Standard Specifications* and *FDOT Supplemental Specifications* are the same thing.

The JGS automatic assignment based on the contract let date **only** applies to MAC Specs for **FDOT Supplemental Specifications**. MAC Specs for project specific requirements are **not** assigned automatically. They must be assigned to the project manually by the SMO Technical unit responsible for the project specific MAC Spec. Examples of project specific MAC Specs are:

- Technical Special Provisions (TSPs)
- Special Provisions (including Modified Special Provisions)
- Developmental Specifications
- Change Orders
- Plan Notes

If one of these documents does not have any material method of acceptance requirements in it, we don't need a project specific MAC Spec. For example, a special provision for **Specifications Section 120** for the removal of contaminated material does not have any language revising the Acceptance Program portion of **Specification Section 120** so a project specific MAC Spec is not needed. In contrast, if the project has Integral Pile Jackets for **Special Provision 457**, it will need the FPN to be assigned to the project specific MAC Spec.

Per the *Construction Project Administration Manual (CPAM) 5.8*, the Project Administrator (PA) reviews the contract documents to determine the materials acceptance requirements and coordinate with the State Materials Office (SMO). The SMO cannot determine when the project specific MAC Specs are needed. The PA must communicate with SMO to ensure they are aware of the requirements and know to make the assignment.

If a MAC Spec doesn't already exist and needs to be created, this will take some time. The SMO may need to review the contract specific requirements and coordinate with the Engineer of Record to clarify any method of acceptance requirements that are not clearly defined. TSPs need additional review time. If you have a TSP with material method of acceptance requirements, get with the SMO as soon as possible.

The PA should include discussion for any project specific materials requirements in the preconstruction conference or preplacement meetings. For example, if you have a Developmental Specification for asphalt material, you may want to discuss the specific requirements and your action plan to ensure the requirements are included on the project's JGS at the pre-paving meeting.

### **Chapter 2 – Reviewing a Standard JGS**

If the contract has conventional pay items, the JGS created by MAC can be reviewed at any time by generating an online standard JGS. Once this is done, a JGS report can be printed for people who don't have access to the online JGS in MAC (D. Generating the hard copy standard JGS Report).

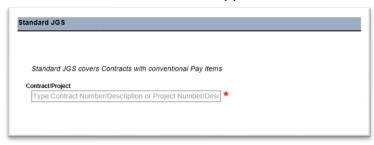
A. Generating the Online Standard JGS

To generate an online standard JGS:



- 1. From the MAC Menu, select the STRG/JGS menu option.
- 2. Select the Standard JGS submenu option.

The Standard JGS screen will appear.



3. **Contract/Project** – the standard JGS is project specific. You may use either the contract number or the project number to find the standard JGS data. Enter the contract number or Financial Project Number (FPN) in the Contract/Project Field and select the appropriate entry from the list.

The Standard JGS screen will retrieve the project specific JGS entries. This may take a while. The screen may appear gray during the retrieval.



### Once the data is retrieved, it will appear on the screen.



### A few things to note:

- MAC is web based. Depending on your settings, your screen may be different
- There could be several sets of scroll bars
  - o There could be two on the side of the screen
    - One scrolls the entire screen
    - One scrolls the entries that were retrieved from the search
  - There could be a scroll bar on the bottom
    - This scrolls across the screen to display the entire width of the data
- The bottom left corner of the screen will show the number of rows retrieved for the project



- The display only retrieves 250 rows at a time. If the data you wish to see is not in the first 250 rows, you will need to select the Show Next 250 option until the data displays
- You will not be permitted to export any entries over 1,000 rows (see <u>B. Exporting the JGS Search Results</u> below)

Once the entire JGS data is retrieved, you can use the additional filters to reduce the data to specific entries, if desired.



- 4. **Filters** enter additional filters, as desired.
- a. **Material(s)** this field is multi-select; however, the system will perform a new search for each entry selected. If you want to review the information for MAC Material 334 and MAC Material 337 for example, select MAC Material 334. The system will filter to MAC Material 334 data. Then select MAC Material 337. The system will add the entries for MAC Material 337.
- b. **Pay Items** this field is multi-select. If MAC Material is selected first, the system will filter on the pay items assigned to that Material.



- c. **Sample Level** this field is single select and will include all sample levels available in MAC. Some sample levels on the drop down may not be included on the MAC Spec.
- d. **Method of Acceptance** this field is single select and will include all methods of acceptance available in MAC. Some methods of acceptance on the drop down may not be included on the MAC Spec.
- e. **Normally Sampled By** this field is single select. It can be used to filter the data to the person who normally takes the sample. This is general information, such as QC personnel, project personnel, and is not an actual person.
- f. **Normally Tested By** this field is single select. It can be used to filter the data to the person who normally tests the sample. This is general information, such as QC laboratory Verification laboratory, and is not an actual person.
- g. **Owner (Technical Unit)** this field is single select. It can be used to filter the data to the specific SMO area that is responsible for the material. This can be helpful if you have questions related to the entries on a specific MAC Spec or if you need to know who to contact if you have a project specific MAC Spec that is like a material already assigned to your project.
- h. **Tests** this field is multi-select; however, the system will perform a new search for each entry selected. You need at least 3 characters from the test identifier or description.
- h. All fields selecting this option will retrieve all fields will show both sampling and testing fields.
- i. Sampler Fields selecting this option will show only fields related to sampling requirements.
   Some example sampler fields are:
  - i. Normally sampled by who usually takes the sample.
  - ii. If a qualified sampler is required and what qualification area the sampler must hold.
  - iii. Sample size, sample frequency, etc.

- j. **Tester Fields** selecting this field will show only fields related to testing requirements. Some example tester fields are:
  - i. Normally tested by who usually tests the sample
  - ii. If a qualified tester is required and what qualification area the sampler must hold
  - iii. Test size (in some cases)
  - iv. If a qualified lab is required.
  - v. If the test is required or not.

### k. Select Spec Type(s)

- i. Selecting Project Specs will include any project MAC Specs under the MAC Material. If no material is provided, it will retrieve all project MAC Specs. Deselecting it will exclude project MAC Specs from the data retrieval.
- ii. Selecting Program Specs will include any program MAC Specs under the MAC Material. If no material is provided, it will retrieve all program MAC Specs. Deselecting it will exclude program MAC Specs from the data retrieval.
- iii. Selecting APL Specs will include any APL materials that have a method of acceptance of APL. Deselecting it will exclude the APL materials from the data retrieval.

As soon as one search criteria is supplied, the system will begin the search. The screen will appear gray until the results are returned.

The system will display the new results meeting the additional search requirements.

**NOTE**: For MAC Specs that have a method of acceptance that is a certification document, it is currently hard to tell if the certification document needs to be reviewed by SMO. One way to tell is if the STRG instructions have wording to retain the documents according to FDOT retention policy. That usually means you don't have to enter the document into MAC on a sample for SMO to review. If you see instructions to submit a sample to SMO, that is how you know. Also, there is a MAC report that will summarize the materials that have a certification document submitted to SMO.



If you are not sure, you can click on the blue hotlink under the Owner column. That will create an email to the appropriate distribution list of the entry that would review the certification document if you needed to submit it to SMO. In the email, you can ask if the entry needs to be entered into MAC for SMO Review or if you just need to collect it and keep it with the project records.

### B. Exporting the JGS Search Results

The results can be exported from the retrieval to an Excel file. It is not recommended to export the results. Most of the time, the JGS entries exceed 1000 rows and you will need a system administrator to export the results for you. Instead you should use the standard JGS report if you need a printout (D. Generating the hard copy standard JGS Report). If you do decide to use the export option:

1. Select filtering to reduce the number of rows to less than 1000 rows



2. Select the Export Results option.

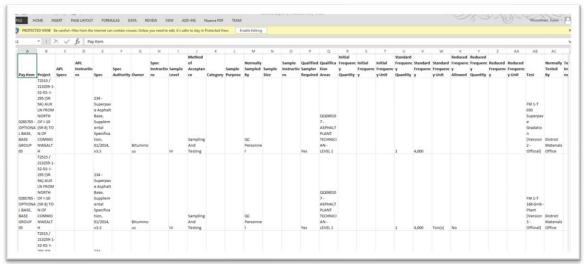
The system will download the results into a file. Please be patient as this may take a while.

A download dialog box will appear. The appearance of the dialog box is a function of the browser you are using.



3. Select the Open option to open the downloaded file.

The Excel file will open with the results.



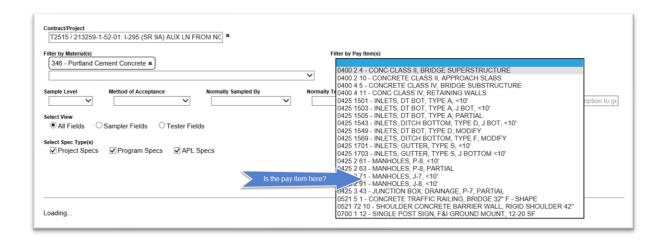
The user must format the file for things like column width, etc. This is intended to be used as a quick data dump for the retrieved results and is not considered to be the official JGS report.

### C. Standard JGS Missing Materials

The PA should review the entries on the standard JGS to ensure all Materials are included. There are several reasons a material may be missing from a standard JGS:

### 1. MAC Specs for FDOT Supplemental Specifications

These are missing because the SMO has not assigned the material to the pay item. SMO Technical units are responsible for assigning their Materials to pay items. If a material is missing, the first question you may be asked is it part of a pay item.



You can confirm this by performing a search for the Material and Pay Item on the Standard JGS screen. If the pay item is missing, contact the SMO Technical unit in charge of the MAC Spec.

### 2. Project specific MAC Spec

In <u>Chapter 1 – Project Specific MAC Specs</u> we described what a project specific MAC Spec is. Most of the time, this will be why the material is not on the Standard JGS. There are two possibilities:

- a. The MAC Spec is not created for the project specific requirement The SMO is unaware of the project specific requirement and has not yet created the MAC Spec entry to represent the requirement.
- b. The MAC Spec is created, but your project is not assigned to it. The SMO has created a MAC Spec entry but is unaware that it applies to your project.

In either case, the PA must notify the SMO technical unit in charge of the material. If you are not sure which SMO technical unit to contact, call or email the MAC system administrator for assistance.

### D. Generating the hard copy standard JGS Report

The JGS report option allows the user to create a printed version of the JGS for use by personnel who may not have direct access to MAC such as field inspectors. It provides more detail and better formatting than the export feature.



1. After retrieving an online JGS, select the View JGS Report option.

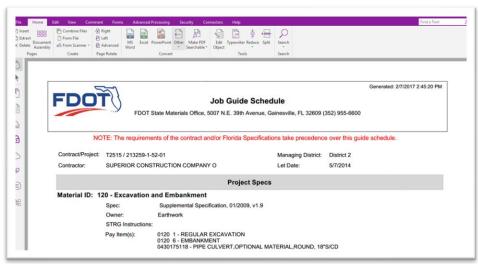
The system will download the JGS data into the report. Please be patient as this may take a while.

A download dialog box will appear. The appearance of the dialog box is a function of the browser you are using.



2. Select the Open option to open the downloaded file.

The JGS report will appear in pdf format.



It can be saved, printed, and distributed as needed.

### **Chapter 3 – What Contracts get an NSJGS?**

All FDOT Lump Sum contracts get an NSJGS. Other contract types also use this function to create a JGS entry. Some examples are Local Agency Program (LAP), Small County Outreach Program (SCOP), Small County Road Assistance Program (SCRAP), and County Incentive Grant Program (CIGP). The difference between these and an FDOT LS contract is the person creating and maintaining the NSJGS may not be a Contractor QC data entry personnel.

There are many requests to have a project added to MAC. Any FDOT contract can potentially have an NSJGS created. Sometimes it takes a DAC or a system administrator to create the JGS.

Many entries, such as permits projects have an FPN, but no contract. MAC will allow for an NSJGS on the project to be created, but without a contract let date to tie to the generation of the MAC Specs for the materials, it does not work. For example, you cannot print the hardcopy NSJGS report or log in samples.

When a user asks to have the DACs or system administrator to add the NSJGS, they will ask a question:

- Will the contract have a Final Project Materials Certification (MC) Review performed by the District Materials and Research Office (DMRO) or SMO?
  - o If the answer is yes, the DAC will create the non-standard JGS entry for the project.
  - o If the answer is no, the DAC will not create the entry.

If you are unsure of whether a contract should have an NSJGS created, contact your local DAC for further assistance.

There is a Excel spreadsheet that summary designed to assist users in creating a complete NSJGS (Non-Standard JGS Materials Summary Worksheet by Material Category). It is intended to provide guidance to ensure the JGS is complete, including Program MAC Specs. The Random Sampling Program or for liquid asphalt or ground tire rubber QC Program samples are examples of program samples that need to be taken by project personnel.

### Chapter 4 - Reviewing a NSJGS

### A. PA Review of NSJGS for Materials Requirements

There is no difference in the PA's review for an NSJGS than for a standard JGS. The PA should ensure all materials are included. The difference is the way MAC compiles the MAC Specs based on the Materials on the Materials tab on the NSJGS. For this reason, it is more likely that Materials will be missing or the incorrect Materials might be selected on an NSJGS. PAs need to ensure the Materials tab is correct and complete.

### 1. MAC Specs for FDOT Supplemental Specifications

Normally these are missing because the user did not select the Material, or they selected the wrong Material. One example is for drilled shaft footers. Many times, the user selects 346 – Structural Portland Cement Concrete, but forgets to select 931 – Reinforcing for Concrete.

### 2. Project specific MAC Spec

In <u>Chapter 1 – Project Specific MAC Specs</u> we described what a project specific MAC Spec is. Most of the time, this will be why the material is not on the Standard JGS. There are two possibilities:

- a. The MAC Spec is not created for the project specific requirement The SMO is unaware of the project specific requirement and has not yet created the MAC Spec entry to represent the requirement.
- b. The MAC Spec is created, but your project is not assigned to it. The SMO has created a MAC Spec entry but is unaware that it applies to your project.

In either case, the PA must notify the SMO technical unit in charge of the material. If you are not sure which SMO technical unit to contact, call or email the MAC system administrator for assistance.

### B. Work Order NSJGS

The Work Order NSJGS feature is for Design Build Phased projects but can be used for any project that is paid by work orders or invoices. Sometimes, it may also be used for push-button contracts instead of a standard JGS even though they have pay items. If your project needs a Work Order NSJGS, contact the appropriate DAC. The PA review for a Work Order NSJGS is the same as any JGS expect the materials listed are related to a specific work order.

### C. NSJGS for LS contracts

PA's have an additional review for an NSJGS to ensure it is compliant with **Specification Section 105**. There are instructions from the State Construction Office on the other items to be reviewed by the PA to ensure the entry meets the requirements of **Specifications Section 105**. Follow the guidelines shown in the PA's instructions for reviewing LS contracts (see the <u>PA instruction for LS JGS (contract compliance requirements</u>). These instructions guide the PA in the contract compliance for **Specification Section 105**.

**NOTE**: If an NSJGS is created for a contract that does not include **Specification Section 105**, some requirements may not apply. Please consult with the local DAC if you have questions about what is needed for an NSJGS on a contract that does not include **Specification Section 105**.

### D. Generating the hardcopy NSJGS Report

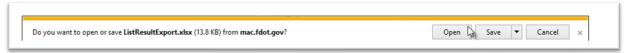
The JGS report option allows the user to create a printed version of the JGS for use by personnel who may not have direct access to MAC such as field inspectors.



1. Select the View JGS Report option.

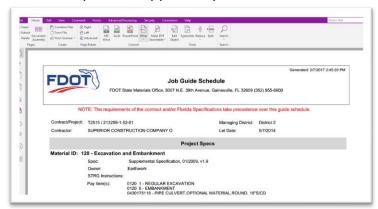
The system will download the JGS data into the report. Please be patient as this may take a while.

A download dialog box will appear.



2. Select the Open option to open the downloaded file.

The JGS report will appear in pdf format.



It can be saved, printed, and distributed as needed.